15370 Barranca Parkway
Irvine, CA 92618

FARGO®

HDP®5000 (2013) & HDP®ii Plus

SERVICE MANUAL

Use this service manual for HDP5000 Card Printer part number 089600 to 089900 with serial number cut in B3080651. HDPii Plus Card Printer part number 089382 with serial number B3160607.

PLT-01656, Rev 1.0

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Revision History

The revision number for this document will be updated to reflect changes, corrections, updates and enhancements to this document.

Revision Control Number	Date	Document Title
Revision 1.0	October 2013	HDP5000 (2013) & HDPii PLUS High Definition Card Printer/Encoder Service Manual VERIFY THE PRINTER PART NUMBER TO USE THIS SERVICE MANUAL. Use this service manual for HDP5000 Card Printer part number 089600 to 089900 with serial number cut in B3080651. HDPii **Plus** Card Printer part number 089382 with serial number B3160607. ********** If your HDP5000 Card Printer shows part number 089000 – 089555 Or HDPii (not PLUS) Card Printer then ref er to service manual part number L000951. Updated parts used for the HDP 5000 (2013) contain parts that are NOT backwards compatible with the older HDP printers.

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HDP5000 & HDPii Plus Parts Replacement

The purpose of this section is to provide the User with specific replacement procedures for the Card Printer. Please see the next page to review standard precautions (to take) while performing these replacement procedures.

Step	Procedure
1	**Caution:** Turn OFF the Printer and unplug the power cord from the Printer. **Danger:** Wear proper eye protection to perform the procedures in this section.
2	Be sure to reverse the disassembly steps to reassemble the Card Printer.
3	***NOTE: Print out the Advanced Setting Card for future reference. If the main board or the printhead is replaced these numbers will need to be added back into the Advanced Settings Options within the driver. From the front display select OPTIONS to MENU to TESTS. Print out the Printer Setting and the Laminator Settings keep for future use.***

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Safety Messages (review carefully)

Symbol	Critical Instructions for Safety purposes
Danger:	**Failure to follow these installation guidelines can result in death or serious injury.** Information that raises potential safety issues is indicated by a warning symbol (as shown to the left). • **To prevent personal injury**, refer to the following safety messages before performing an operation preceded by this symbol. • **To prevent personal injury**, always remove the power cord prior to performing repair procedures, unless otherwise specified. • **To prevent personal injury**, make sure only authorized service personnel perform these procedures.
Caution:	**This device is electrostatically sensitive**. **It** can **be damaged if exposed to static electricity discharges.** Information that raises potential electrostatic safety issues is indicated by a warning symbol (as shown to the left). • **To prevent equipment or media damage**, refer to the following safety messages before performing an operation preceded by this symbol. • **To prevent equipment or media damage**, observe all established Electrostatic Discharge (ESD) procedures while handling cables in or near the Circuit Board and Printhead Assemblies. • **To prevent equipment or media damage**, always wear an appropriate personal grounding device (e.g., a high quality wrist strap grounded to avoid potential damage). • **To prevent equipment or media damage**, always remove the Ribbon and Cards from the Printer before making any repairs, unless otherwise specified. • **To prevent equipment or media damage**, remove jewelry as well as thoroughly clean hands to remove oil and debris before working on the Printer.

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Cover Replacement Procedures

Important: These procedures can only be performed by authorized service personnel.

The HDP Printer now uses fewer screws to attach parts, such as, Covers and Sensors.

- Many of the parts use a simply snapped into place. Most Sensors and Rollers SNAP in and out to attach.
- **Caution:** When replacing the Covers or any parts, do NOT pinch any wires.

Caution: Please be careful not to force any of the snapping parts as they could break with too much pressure.

Reviewing the Sequence (used) To Avoid Damage

The Covers must be removed in this sequence (order) to avoid damage to these parts.

HDP5000 (2013)

1. Front Door (D910811-01)
2. Back Cover (D910821-01)
3. Input Side Cover (D910822-01)
4. Output Side Upgrade Cover (D910828-01)
5. Output Side Cover (D910823-01)
6. Top Cover (D910825-01)
7. Full Assembly Front Cover with Cable and LCD (D910702-01)

HDPii PLUS Flipper Module

1. Front Door (D910811-01)
2. Back Cover (D910821-01)
3. Input Side Cover (D910846-01)
4. Output Side Cover (D910850-01)
5. Top Cover (D910860-01)
6. Front Cover (D910862-01)

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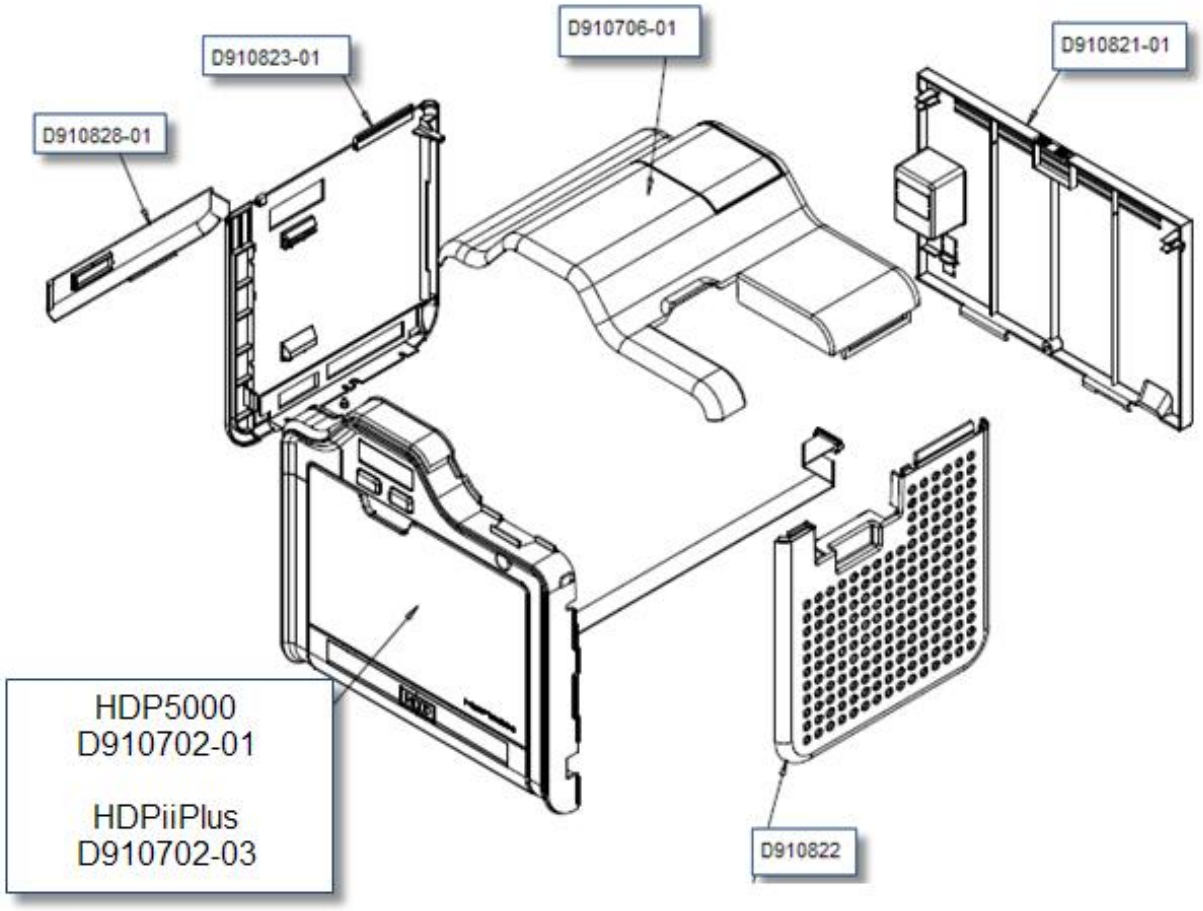
Reviewing the HDP Printer Covers



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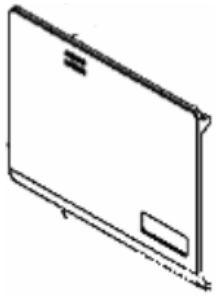
Replacing the Front Door Assembly

HDP5000 (2013) & HDPii Plus D910811-01

	**Tools needed:** **Estimated Repair Time:** 5 minutes **Important:** This procedure can only be performed by authorized service personnel.

Step	Procedure
1	**Caution:** Power off the Printer by unplugging the power cord from the Printer.
2	Remove the Ribbon, Film and Card Cartridges.
3	a. Open the Cover b. Flex the Front Cover Assembly from the center bottom to release the two (2) side pins from the Frame.
4	Reverse the instructions to re-assemble.

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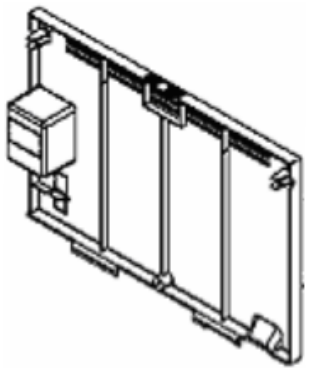
Replacing the Back Cover Assembly

HDP5000 (2013) & HDPii Plus D910821-01

	Tools needed: 10 Torx and small flathead screwdrivers; Estimated Repair Time: 5 minutes Important: This procedure can only be performed by authorized service personnel.

Step	Procedure
1	Caution: Power off the Printer by unplugging the power cord from the Printer.
2	Remove the Ribbon, Film and Card Cartridges.
3	Remove the screw at the base of the Back Cover Assembly Use a small screwdriver to pry the center tab slot to release the Cover. Bend out and down to remove from the lower tab slots.
4	Reverse the instructions to re-assemble. (Note: First insert the tabs located at the bottom edge of the Cover.)

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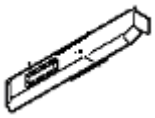
Replacing the Output Side Upgrade Cover

HDP5000 (2013) & HDPii Plus D910828-01

	**Tools needed:** 10 Torx screwdriver **Estimated Repair Time:** 1 minute **Important:** This procedure can only be performed by authorized service personnel.

Step	Procedure
1	**Caution:** Power off the Printer by unplugging the power cord from the Printer.
2	Remove the Ribbon, Film and Card Cartridges.
3	Use a small flathead screwdriver to release the one end. Pry the rest of the cover off.
4	Reverse the instructions to re-assemble. Leave it off for Upgraded Printers to access the port.

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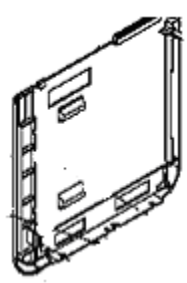
Replacing the Output Side Cover

HDP5000 (2013) & HDPii Plus D910823-01

	**Tools needed:** 10 Torx screwdriver **Estimated Repair Time:** 5 minutes **Important:** This procedure can only be performed by authorized service personnel.

Step	Procedure
1	**Caution:** Power off the Printer by unplugging the power cord from the Printer.
2	Remove the Ribbon, Film and Card Cartridges.
3	Turn the Printer over and loosen the three (3) screw at the base of the Cover.
4	Remove the Output Cover Assembly by pulling it out and off.
5	Reverse the instructions to re-assemble. (**Note:** First insert the tabs located at the upper edge of the Cover.)

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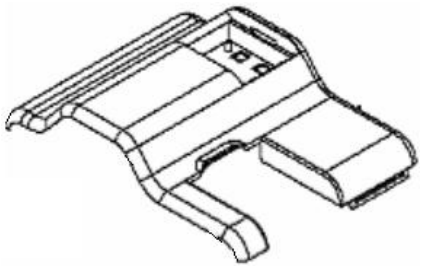
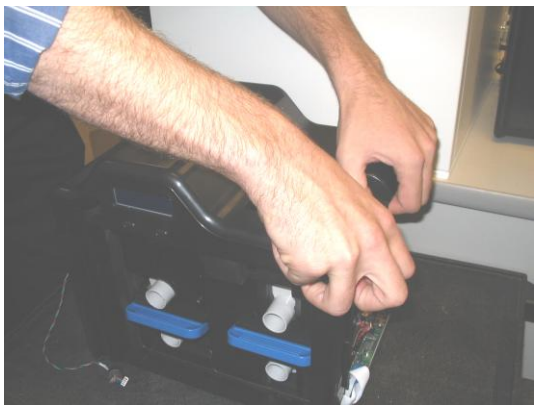
Replacing the Top Cover

HDP5000 (2013) & HDPii Plus D910706-01

	**Tools needed:** **Estimated Repair Time:** 10 minutes **Important:** This procedure can only be performed by authorized service personnel.

Step	Procedure
1	**Caution:** Power off the Printer by unplugging the power cord from the Printer.
2	a. Remove the Ribbon, Film and Card Cartridges. b. Remove the Input Side Cover (D910822-01) and Output Side Cover (D910823-01) first. c. Remove the Top Cover Assembly by pulling it up and off. d. Starting with the input side, grasp the two (2) sections from underneath. Then pull out and up to release the small tabs that hold this Cover to the Frame. See display A. e. Lift the Top Cover Assembly off from the Output side.
3	Reverse the instructions to re-assemble. (**Note:** Start with the input side to latch the tabs, and then snap down on the output side to attach it.)



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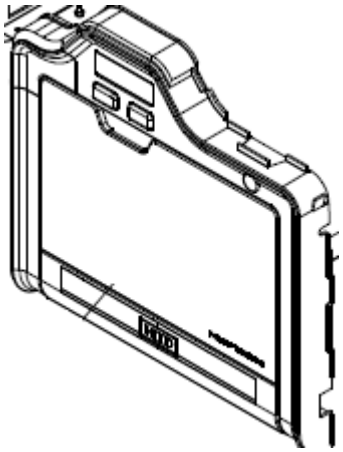
Replacing the Bezel Front Cover

HDP5000 (2013) D910702-01, HDPii Plus D910702-03)

<table>
<tr><td>  </td><td>Tools needed:
Estimated Repair Time: 10 minute
Important: This procedure can only be performed by authorized service personnel.
This part contains the OLED Display board, front door, and cables.</td></tr>
<tr><th>Step</th><th>Procedure</th></tr>
<tr><td>1</td><td>Caution: Power off the Printer by unplugging the power cord from the Printer.</td></tr>
<tr><td>2</td><td>a. Remove the Ribbon, Film and Card Cartridges.
b. Remove all of the Covers to access this Bezel Front Cover.
c. Remove the Magnetic Cover (D910827-01).</td></tr>
<tr><td>3</td><td>Gently pull off the Frame.
Caution: Do not tilt it. Pull the Frame straight out from the Frame.</td></tr>
<tr><td>4</td><td>Disconnect LCD cable.
(Note: The Cable routing extends within the Front Frame.)</td></tr>
<tr><td>5</td><td>Reverse the instructions to re-assemble.
(Note: Line up the cover and then snap the Frame into place.)</td></tr>
</table>

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Replacing the Magnetic Cover

HDP5000 (2013) D910827-01

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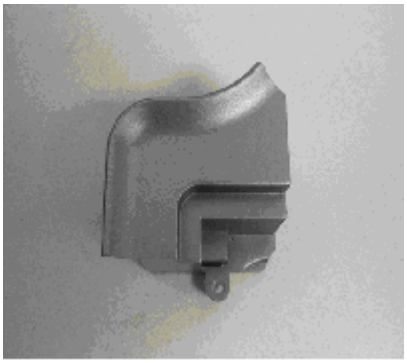
<tr><td>  </td><td>

- **Tools needed:** 10 Torx screwdriver
- **Estimated Repair Time:** 5 minutes

Important: This procedure can only be performed by authorized service personnel.

This part is contained in the Front Trim Cover.

</td></tr>
</table>

Step	Procedure
1	**Caution:** Turn OFF the Printer and unplug the power cord from the Printer.
2	a. Remove the screw from the Magnetic Cover (F000177). See the photo above. b. Remove the Magnetic Cover Assembly. c. Replace it.
3	Reverse the instructions to re-assemble.

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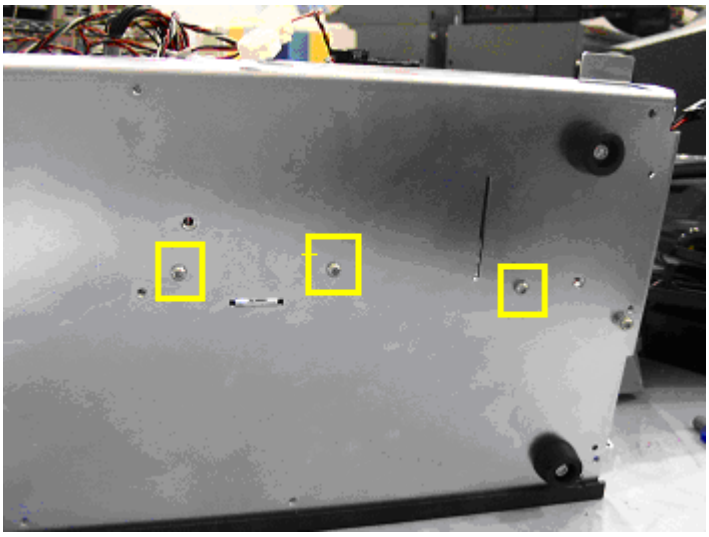
Removing the Baseplate

HDP5000 (2013) & HDPii Plus D910372



Tools needed: 10 Torx screwdriver

Estimated Repair Time: 20 minutes

Preparation: Remove all Covers. See

Important: This procedure can only be performed by authorized service personnel.

- This procedure is used when replacing the Main Board.

Step	Procedure
1	**Caution:** Power off the Printer by unplugging the power cord from the Printer.
2	Remove the two (2) screws from the Front of the Printer body. Turn the Printer on its front and remove the three (3) Torx screws from the bottom center of the Printer base.
3	Remove the wire connections. (**Note:** Ensure each wire is labeled correctly.) Tilt base back to access the wires. **Caution:** Do not allow any part of the metal Printer body to touch the Main Board.
4	Gently ease the Baseplate off of the Printer body from the Motor side of the Printer.

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Board Replacement Procedures

Replacing the HDP5000 (2013) Magnetic Head Assembly

(089201; Module Kit)

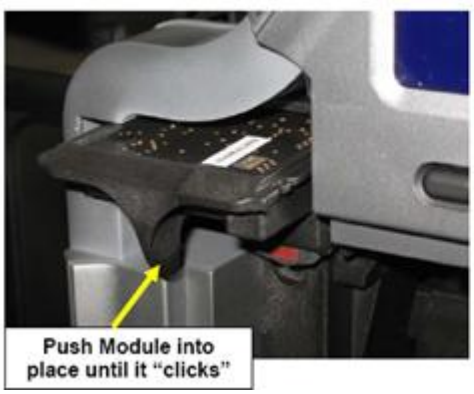
Tools needed: Torx screwdriver

Estimated Repair Time: 5 minutes

Important: This procedure can only be performed by authorized service personnel.

Board and Magnetic head are one piece assembly

Step	Procedure
1	**Caution:** Turn OFF the Printer and unplug the power cord from the Printer.
2	a. Remove the screw (F000177) from the Magnetic Cover (D910827-01). b. Remove the Magnetic Cover Assembly.
3	a. Pull out the Magnetic Head and Board Assembly. b. Install new Magnetic Head and Board
4	Reverse the instructions to re-assemble.



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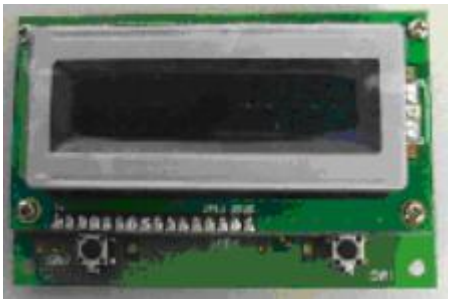
Replacing the LCD Board Assembly

HDP5000 (2013) & HDPii Plus A910820

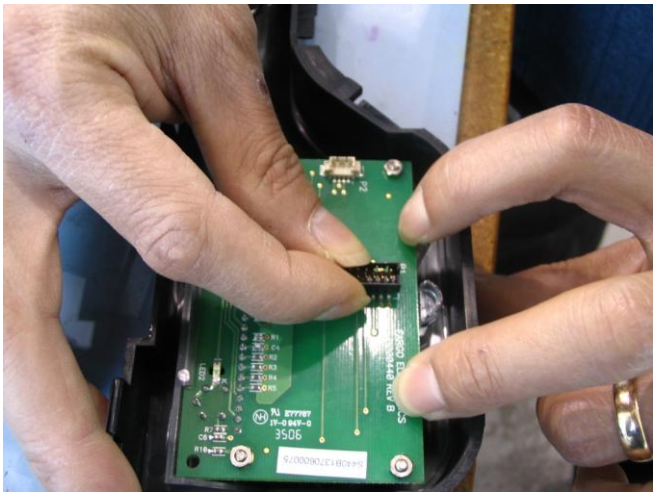


Tools needed: Torx screwdriver

Estimated Repair Time: 10 minutes

Important: This procedure can only be performed by authorized service personnel.

Step	Procedure
1	**Caution:** Turn OFF the Printer and unplug the power cord from the Printer.
2	Remove the Bezel Front Cover (D910702-01).
3	Detach the wire to the Cover Switch at P2 and the Data Ribbon cable at P1 from the OLED Board
4	Unclip the OLED Board Assembly from the Front Panel Assembly. See display A.
5	Replace the OLED Board Assembly
6	Reverse the instructions to re-assemble.



Display A

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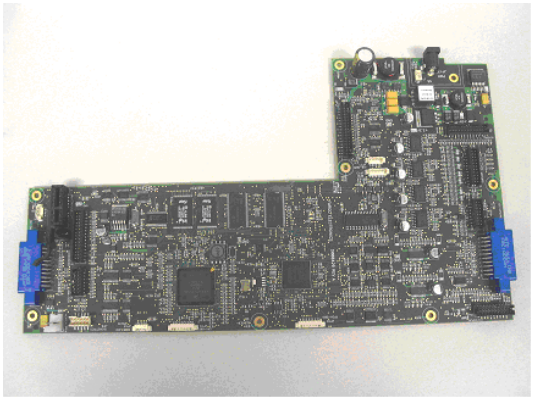
Replacing the Main Board Assembly

**SPECIAL NOTE ON MAINBOARD PART NUMBERS

HDP5000 (2013) Serial number B3080651 and AFTER will use mainboard part number PCA-00013

HDPii PLUS serial number B3160607 and AFTER will use mainboard part number PCA-00014

The main board is NOT backwards compatible so checking the Printer serial number cut in is essential to order the correct mainboard.



Tools needed: 10 Torx screwdriver

Estimated Repair Time: 30 minutes

Preparation: Remove all Covers

Mainboard is located on the Baseplate. See Remove Printer from base procedure.

Important: This procedure can only be performed by authorized service personnel.

Step	Procedure
1	**Caution:** Turn OFF the Printer and unplug the power cord from the Printer. Do not allow any part of the metal Printer body to touch the Main Board.
2	The Main Board Assembly is located underneath the Printer assemble. (**Note:** The Main Board contains the power connection port and the accessory connection port (Flipper Module).) • Remove all Covers. • Remove the Printer from the base. See Removing Printer from base procedure.
3	Remove Ethernet Board if applicable. See Replacing the USB/Ethernet Board Assembly (A910551).
4	Reverse the instructions to re-assemble.

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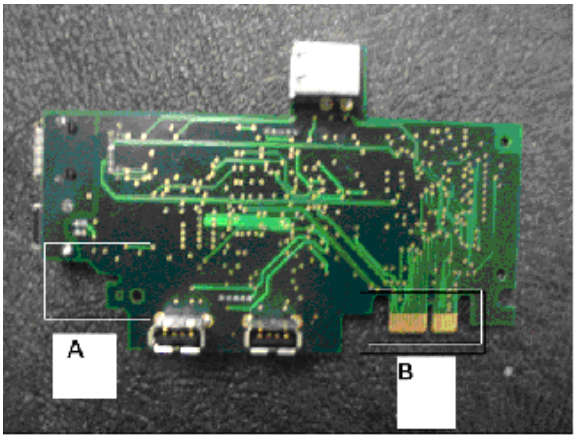
Replacing the USB/Ethernet Board Assembly

HDP5000 (2013) & HDPii Plus A910551



Tools needed: 10 Torx screwdriver

Estimated Repair Time: 20 minutes

Preparation: Remove all Covers.

Important: This procedure can only be performed by authorized service personnel.

A910551 connects to the Mainboard.

Step	Procedure
1	**Caution:** Power off the Printer by unplugging the power cord from the Printer. **Note:** The USB/Ethernet Board Assembly (A910551) is used for the communication port of the USB and Ethernet.
2	The USB/Ethernet Board is located vertically and connected to the main Printer Board at location JP9. • Do not remove the Main Board Assembly for this procedure.
3	a. Remove the Back Cover. b. Remove the Output Side Cover.
4	Hold the Board at an angle and insert the NOTCH (A) into the slot of the metal base Frame on the USB port side of the Main Board Assembly. See Display A on the next page.
5	Carefully Insert the connector tab (B) into the slot on the Main Board Assembly. The location is JP9 ETH/USB. (**Note:** The locking arm located towards the rear must be released if the Board is installed or removed.) See Display B in this section.
6	Reverse the instructions to re-assemble.

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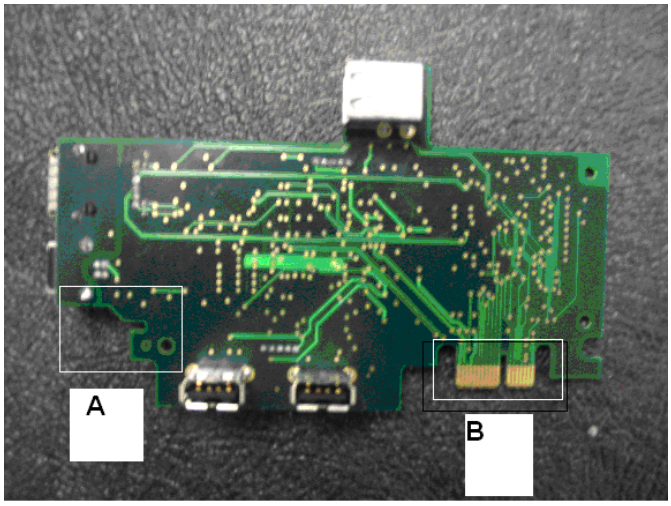
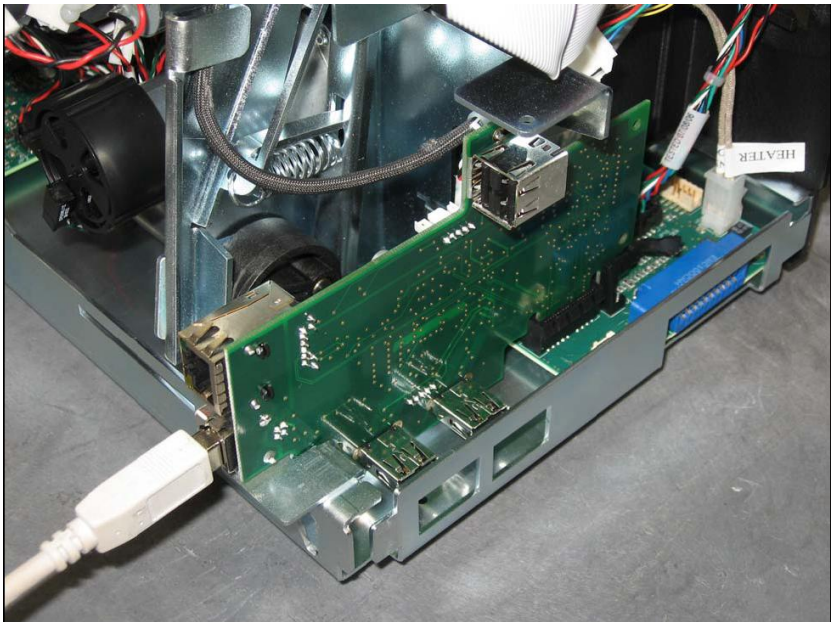
Installing the USB/Ethernet Board Assembly (A910551) (continued)

Display A – See Procedural Step 4 in this procedure.



Display B –



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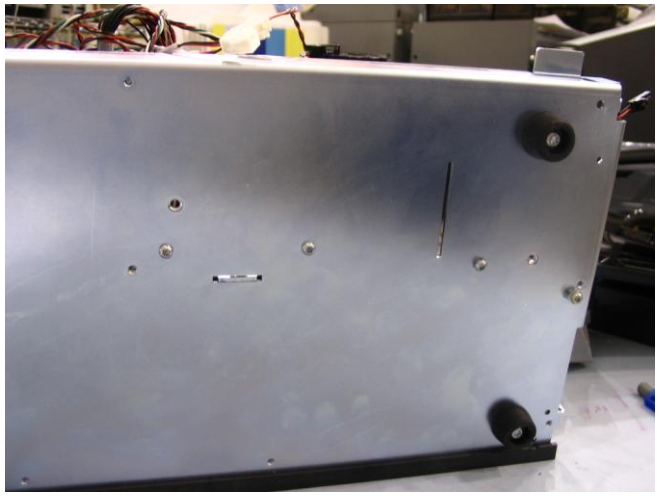
Replacing the RFID Board Assembly A000365

	Tools needed: 10 Torx screwdriver **Estimated Repair Time:** 30 minutes **Preparation:** Remove all Covers. Remove Printer from base to access this part. **Important:** This procedure can only be performed by authorized service personnel.

Step	Procedure
1	**Caution:** Power off the Printer by unplugging the power cord from the Printer.
2	Remove the appropriate Supply Motor. See instructions above
3	The complete Printer body must be removed from the Baseplate to allow clearance to remove the RFID Board. a. Remove the two (2) screws from the Front of the Printer body. b. Turn the Printer on its front and remove the three (3) Torx screws from the bottom center of the Printer base. Life Printer body from base. See Display A within this procedure. 

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Replacing the RFID Board Assembly (A000365)

Step	Procedure
4	Replace the RFID PCB Board (A000365) by sliding into place under the holding tabs. See Display A
5	Reverse the instructions to re-assemble.

Display A: See Step 4 in this procedure.

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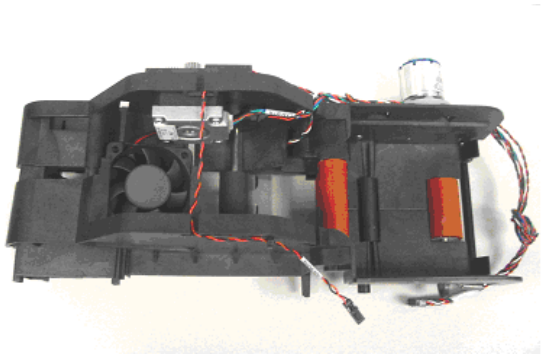
Card Path and Roller Replacement Procedures

Replacing the Card Path Assembly

HDP5000 (2013) & HDPii Plus D910721

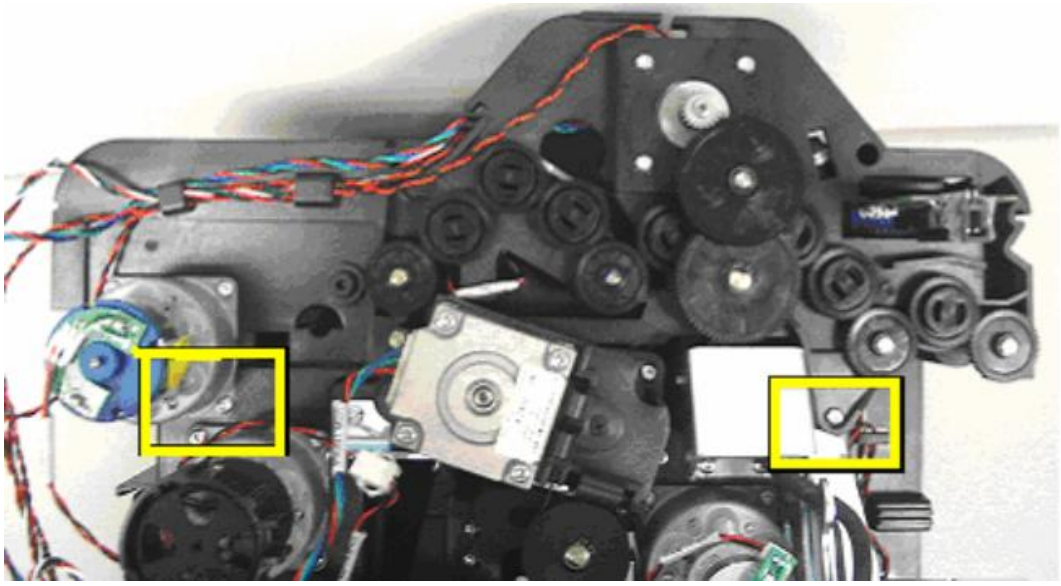


Tools needed: Torx screwdriver

Estimated Repair Time: 20 minutes

Preparation: Remove all Covers.

Important: This procedure can only be performed by authorized service personnel.

Step	Procedure
1	**Caution:** Turn OFF the Printer and unplug the power cord from the Printer. **Important:** Card path removal makes parts removal easier. Relates to other procedures.
2	Remove the two (2) screws from the card path. (**Note:** One screw is located at the back next to the Card Feed Motor Assembly (D910074). One screw is located at the back opposite side.) 

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Step	Procedure
3	Gently slide the Card Path Assembly (D910721) and slide out from the back side.
4	Detach the wire connections. (**Note:** Leave the other wires attached to the assemblies in this upper section- JP1 cable stays on the card path assembly)
5	Reverse the instructions to re-assemble.

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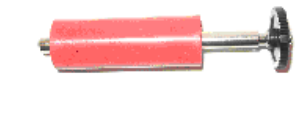
Replacing the Card Rollers, Cleaning Roller/gear

HDP5000 (2013) & HDPii Plus Card Roller D910064 and Cleaning Roller Idler D910107



D910064

D910107

Tools needed: Torx screwdriver - small flathead screwdriver

Estimated Repair Time: 30 minutes

Preparation: Remove all Covers.

Important: This procedure can only be performed by authorized service personnel.

Step	Procedure
1	**Caution:** Turn OFF the Printer and unplug the power cord from the Printer.
2	Remove the Card Path Sensor. See Replacing the Card Path Sensor.
3	Remove the Roller D910107 by snapping it out from the Frame. Turn card path over to access this Roller. See Display A in this section.
4	Replace the Roller (D910107) and reassemble (if not changing the D910064 Roller).
5	a. Remove the Roller (D910107) to access the Roller (D910064). b. Remove the Main Gear D910110 next to the Roller to clear access for removal. See Display B. c. Remove the Roller D910064 by snapping it out from the Frame. See Display C. d. Leave the Gear attached to the Roller Shaft and gently work this out from the Frame. It is snapped into place.
6	Replace the Card Sensor by snapping into place. (**Note:** The tabs will click when the Sensor is properly installed.)
7	Reverse the instructions to re-assemble.

Replacing the Card Rollers, Cleaning Roller/gear (D910064) and Cleaning Roller Idler

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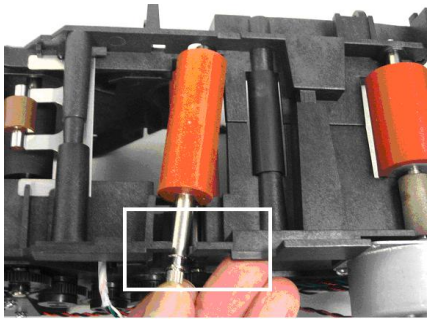
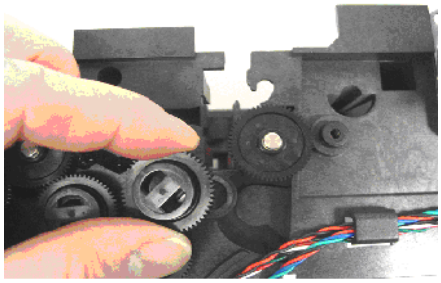
(D910107) (continued)

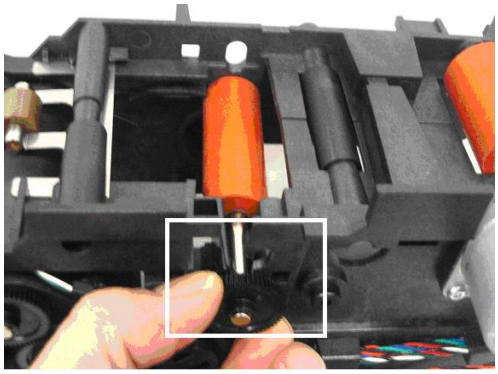
Display A: Relates to Roller (D910107). Push down and out to unlock the Shaft from the Frame. See Step 3 in this procedure.



Display B: You should remove this Gear to clear access for Roller removal, which snaps on and off easily. See Step 5 in this procedure.



Display C: Relates to Roller (D910064). Push down and out to unlock the Shaft from the Frame. Leave the Gear attached to the Roller Shaft. See Step 5.



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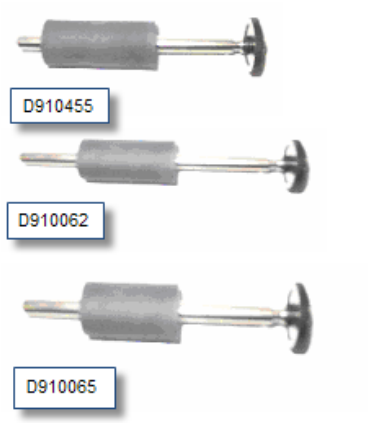
Replacing the Card Rollers

HDP5000 (2013) & HDPii Plus D910062, D910455 and D910065



Tools needed: Torx screwdriver

Estimated Repair Time: 30 minute

Preparation: Remove all Covers.

Important: This procedure can only be performed by authorized service personnel.

Step	Procedure
1	**Caution:** Turn OFF the Printer and unplug the power cord from the Printer. **Important:** Card Path removal makes parts removal easier.

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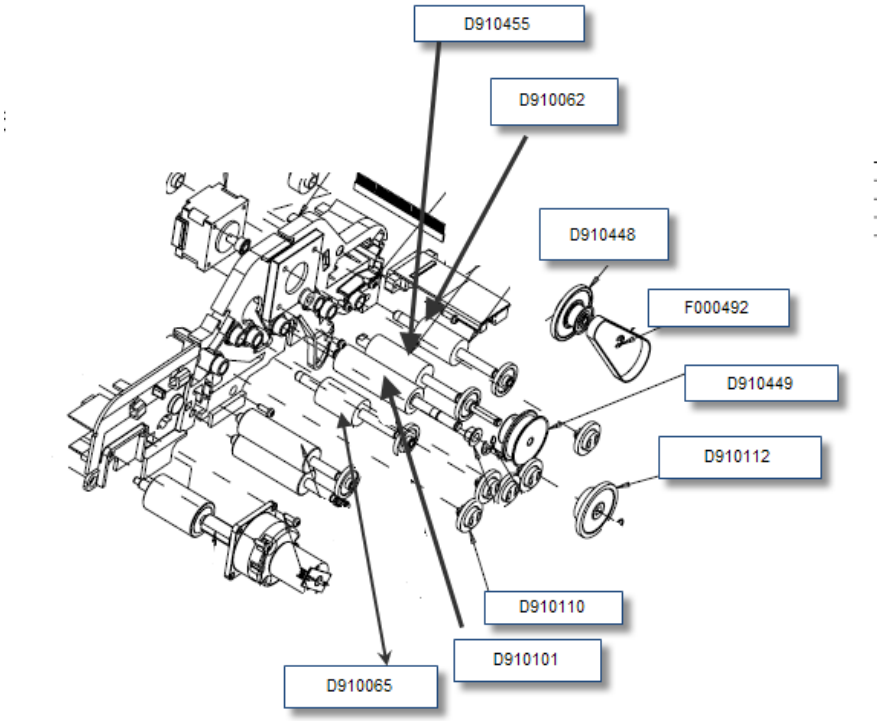
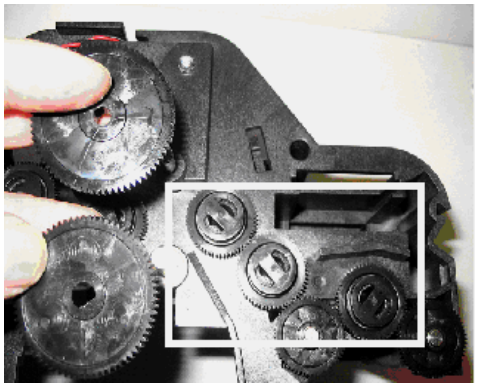
Step	Procedure
2	Remove the two (2) large Gears (D910448 and D910112) to access the Rollers. (**Note:** These Gears are attached with an E-Clip and a C-Clip.) 
3	Remove three (3) Main Plastic Gears (D910110) to access the Roller (D910062) (**Note:** These are snap-on Gears.) 

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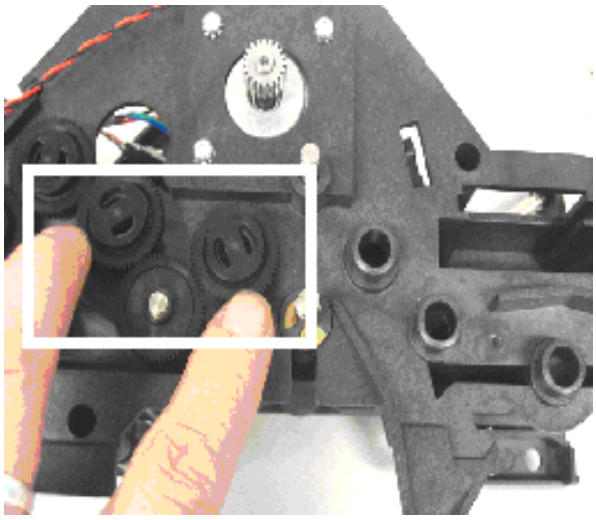
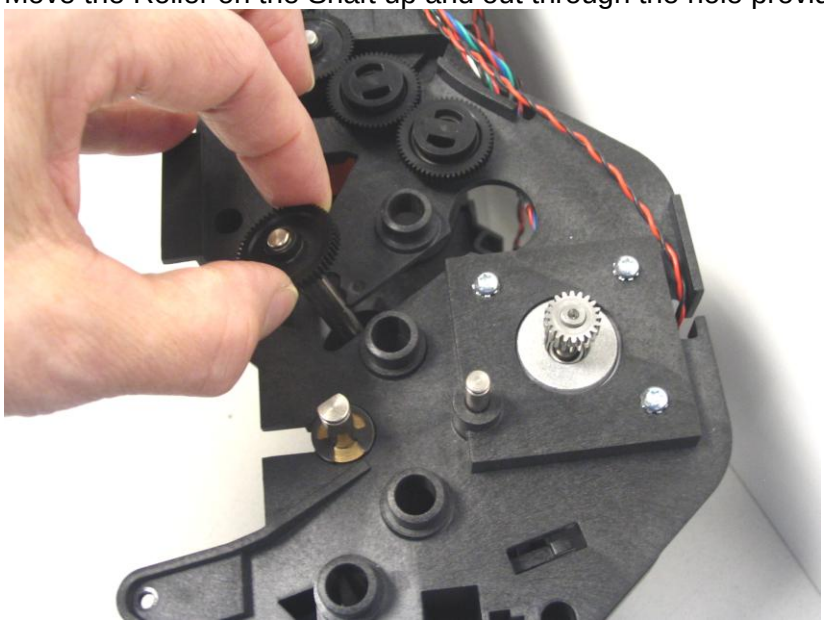
Step	Procedure
4	a. Unsnap the Roller Shaft (D910062) from the Frame and slide it out. b. Leave the Gear on the Shaft.
5	Remove the Roller (D910065) according to Steps 1 to 4 (above). (**Note:** The Gear remains on the Shaft.)
6	To remove the Card Roller (D910455) located in the center of the Card Path, remove the two (2) Gears (D910110) 
7	Move the Roller on the Shaft up and out through the hole provided. 

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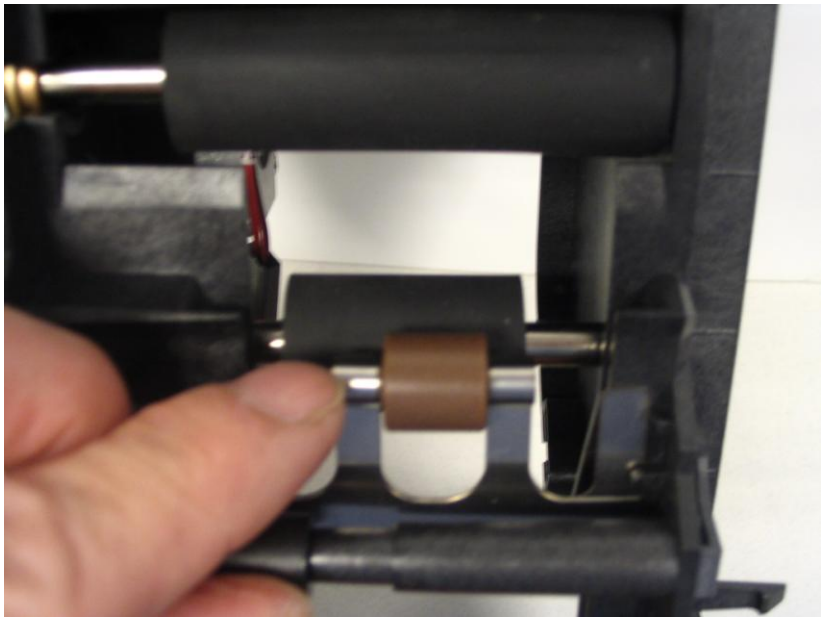
Step	Procedure
8	The Card Idler Roller (D910295) can fall out when the Roller is removed. 
9	Reverse the instructions to re-assemble.

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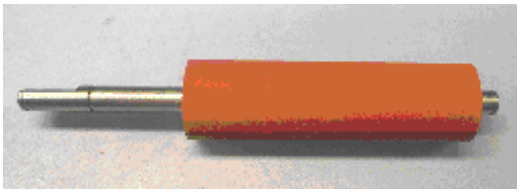
Replacing the Platen Card Roller

HDP5000 (2013) & HDPii Plus D910101



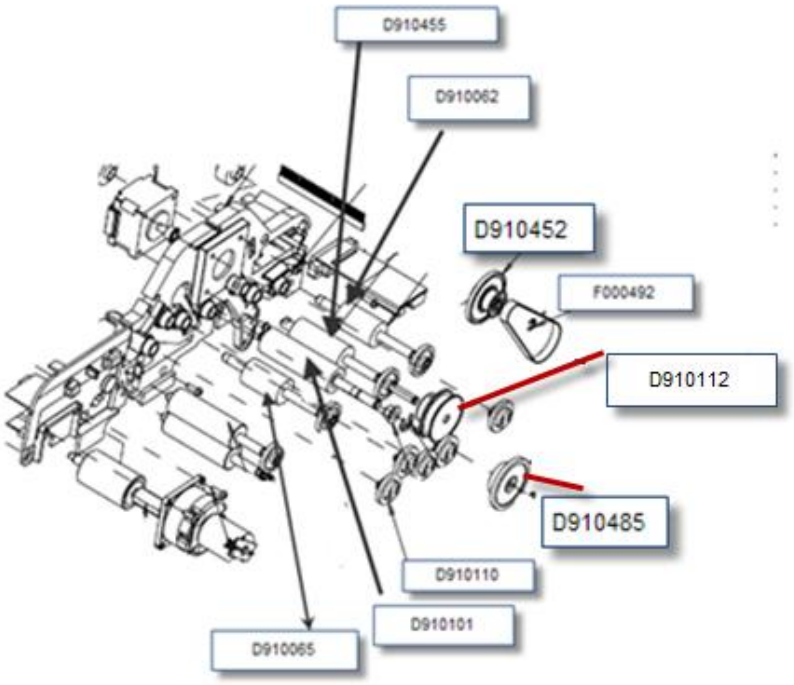
Located in the Card Path

Tools needed: Torx screwdriver

Estimated Repair Time: 20 minutes

Preparation: Remove all Covers.

Important: This procedure can only be performed by authorized service personnel.

Step	Procedure
1	**Caution:** Turn OFF the Printer and unplug the power cord from the Printer. **Important:** Card path removal makes parts removal easier. Relates to other procedures.
2	Remove the large Gear D910485 and D910112 to access the Rollers. These Gears are attached with an E-Clip and a C-Clip. 

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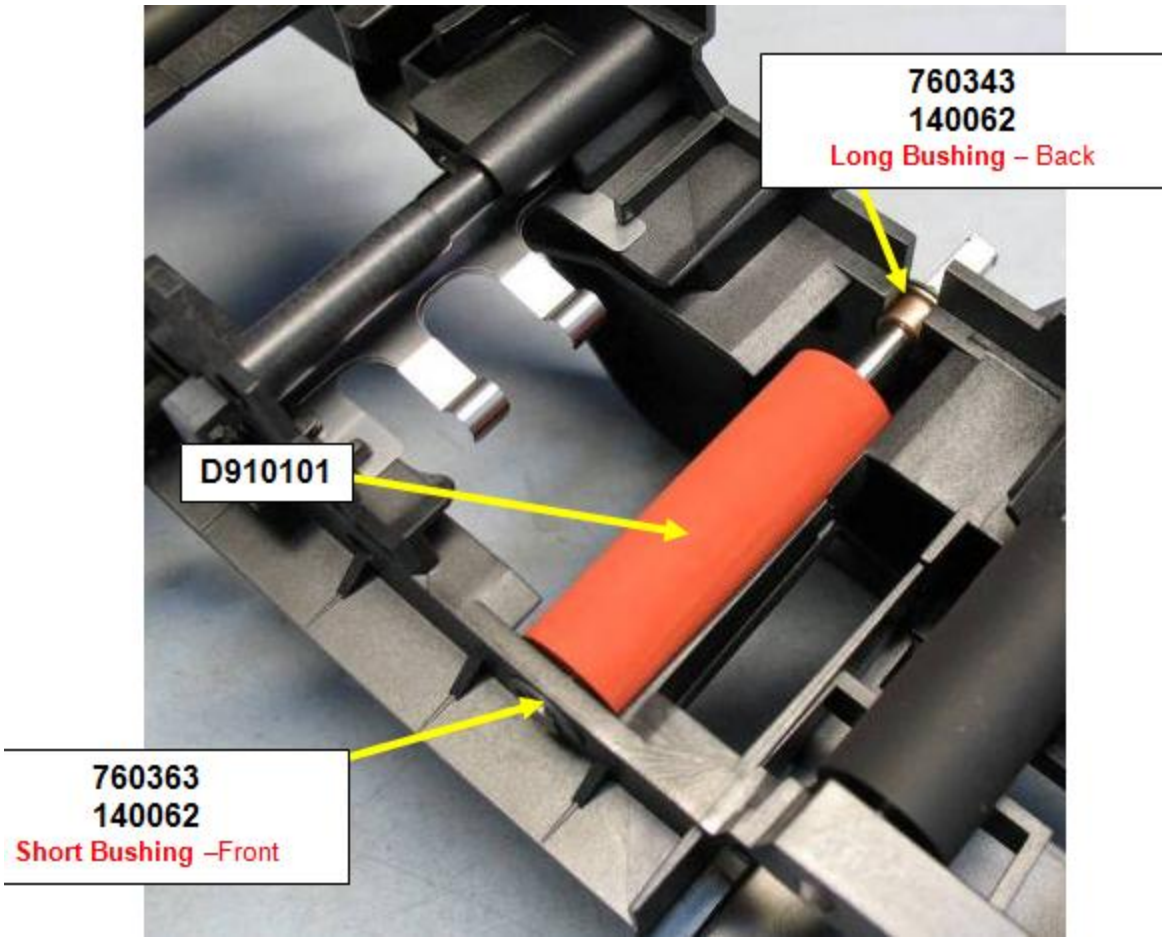
Step	Procedure
3	Remove the E-Clips (140062) on both sides of the Platen Roller D910101
4	Remove the Bearing (760343) from the Platen shaft.
5	Remove the Platen Roller by sliding the long shaft up and out from the back of the card path. 
6	Reverse the instructions to re-assemble.

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Replacing the Print Platen Roller

HDP5000 (2013) & HDPii Plus D910109

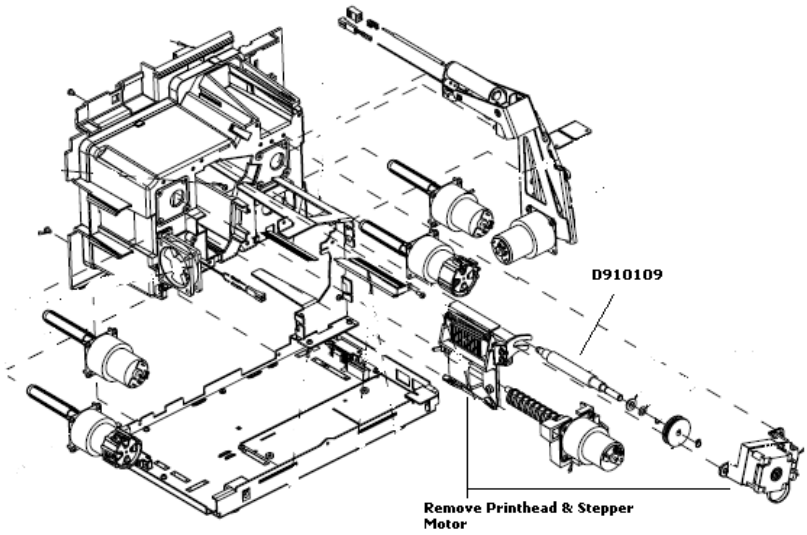
Located in the Mechanism within the Printhead Bracket

Tools needed: Torx screwdriver

Estimated Repair Time: 20 minutes

Preparation: Remove all Covers.

Important: This procedure can only be performed by authorized service personnel.

Step	Procedure
1	**Caution:** Turn OFF the Printer and unplug the power cord from the Printer. **Important:** Card path removal makes parts removal easier. Relates to other procedures.
2	Remove the Printhead Assembly. See Printhead Replacement Procedures.
3	Remove the Stepper Motor. See Replacing the Print Stepper Motor (D910727) and/or the Print Stepper Motor Belts (F000093-2 used) and/or the Print Motor Stepper Gear (D840888). 

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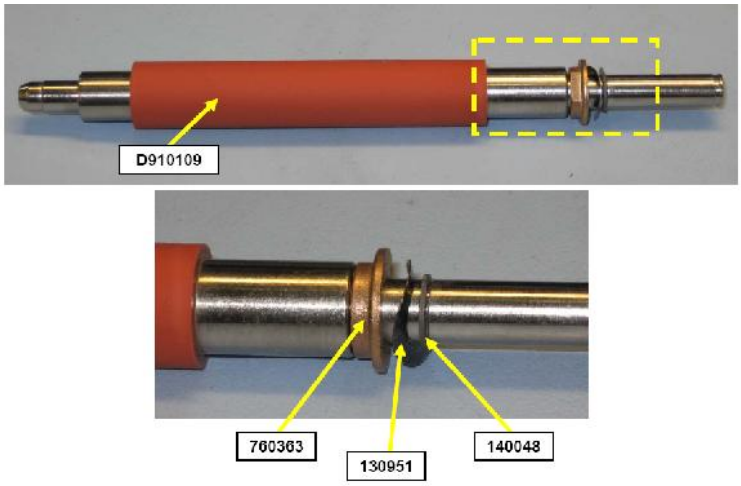
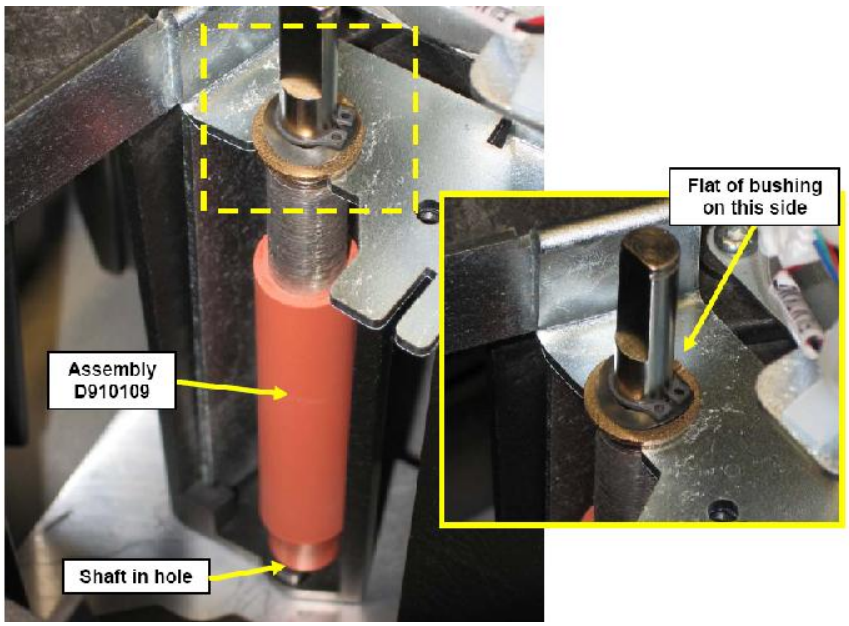
Step	Procedure
4	Hold the Pulley (D840889) on the Shaft and lift up and to the left to remove the Roller.
5	Install the new roller
6	Refer to this procedure for washer placement. 
7	Fit the Shaft end into the hole provided. Notice the flat side of the bushing goes to the flat side of the Frame. (**Note:** There is a small notch on the bushing to indicate the flat side. This notch faces to the right. 

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Step	Procedure
8	Replace the Pulley (D840889) as needed
9	Reverse the instructions to re-assemble.

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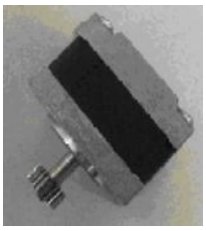
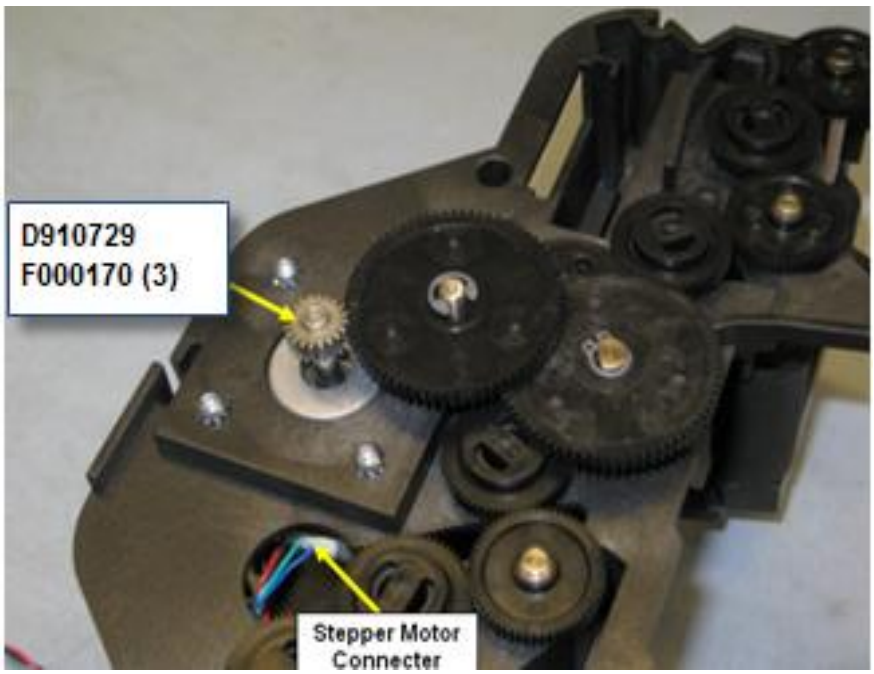
Motor Replacement Procedures

Replacing the Drive Train Stepper Motor Assembly

HDP5000 (2013) & HDPii Plus D910729

 Located in the Card Path	**Tools needed:** Torx screwdriver **Estimated Repair Time:** 20 minutes **Preparation:** Remove all Covers. **Important:** This procedure can only be performed by authorized service personnel. The Card Path does not need to be removed for this procedure.

Step	Procedure
1	**Caution:** Turn OFF the Printer and unplug the power cord from the Printer.
2	Remove all of the Covers.
3	Remove the three (3) screws from the Stepper Motor (D910729).  outer view (continued next page)

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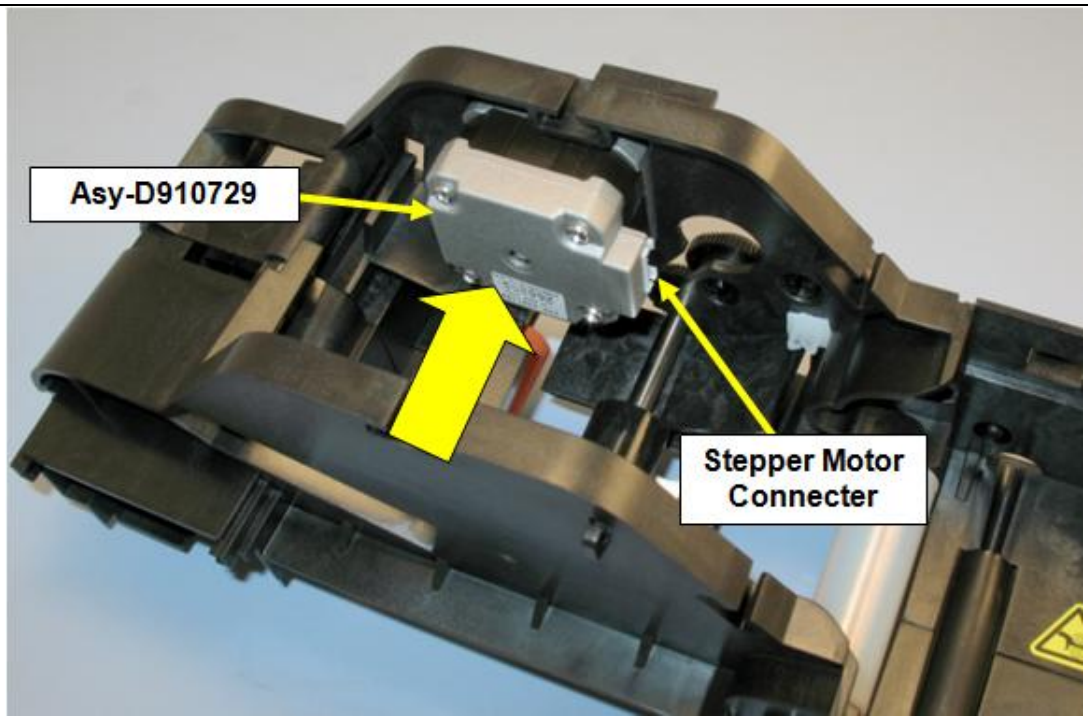
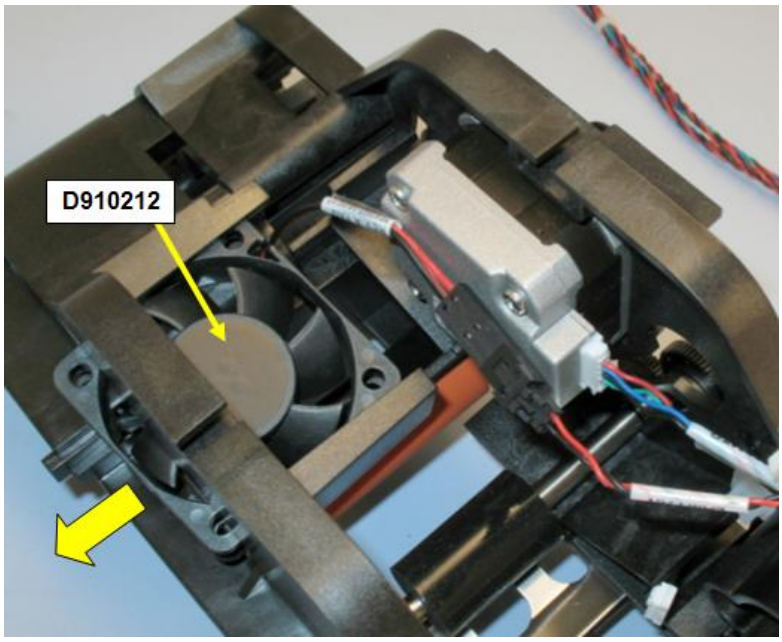
	 Inner view
4	Unplug the Motor Cable (D910742) from the side of the Motor.
5	Slide out the Fan (D910212) to allow for room to remove the Motor. 

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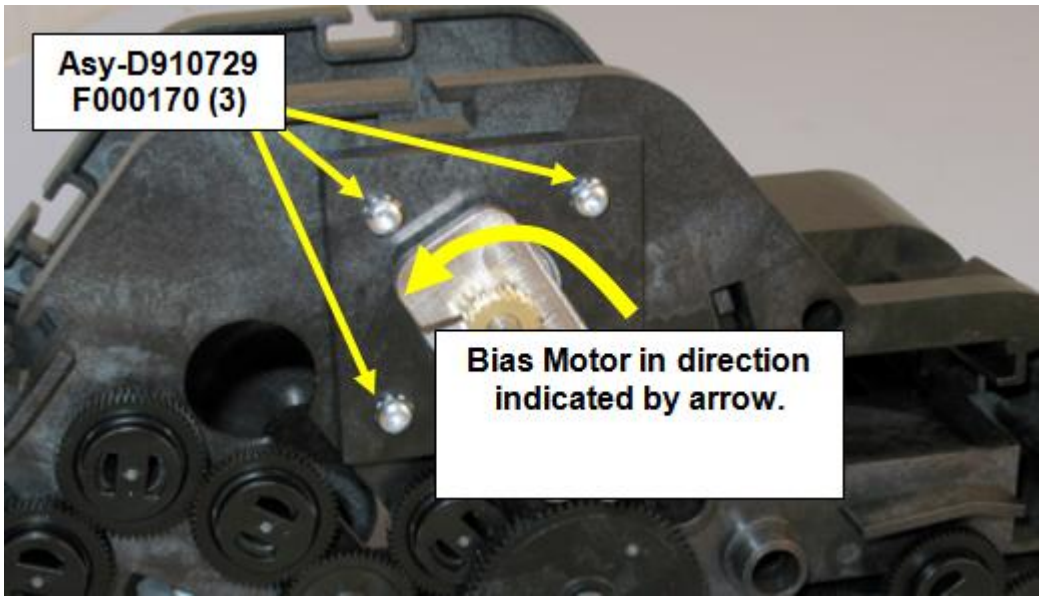
Step	Procedure
6	Replace with the new motor.
7	Secure with 3 screws then bias the motor to the left, and then tighten the screws. 
8	Reverse the instructions to re-assemble.

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Replacing the Card Feed Motor/Roller Assembly

HDP5000 (2013) & HDPii Plus D910074

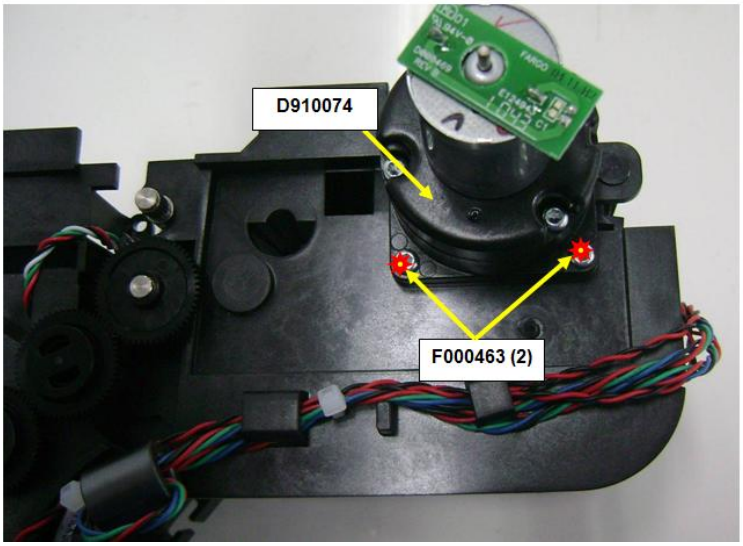
Tools needed: Torx screwdriver

Estimated Repair Time: 30 minutes

Preparation: Remove all Covers.

Remove the Card Path Assembly. See Replacing the Card Path Assembly (D910721).

Important: This procedure can only be performed by authorized service personnel.

Step	Procedure
1	**Caution:** Turn OFF the Printer and unplug the power cord from the Printer.
2	Remove the two (2) screws from the Card Feed Motor and Roller (D910074). 

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Replacing the Card Feed Motor/Roller Assembly (D910074) (continued)

Step	Procedure
3	Unplug the cable from the Motor.
4	Pull out the Motor with the Roller (D910074).
5	Reverse the instructions to re-assemble. • Insert the Shaft end into the hole provided. (**Note:** The Motor and screws will only fit one way.) • Replace the cable.

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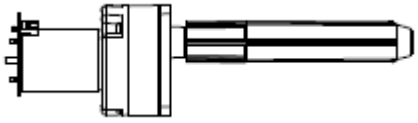
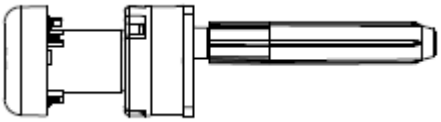
Replacing the Film Supply Motor (D910723), Ribbon Supply Motor (D910725), or RFID Board (A000365)

HDP5000 (2013) & HDPii Plus



D910725



D910723

Tools needed: 10 Torx screwdriver

Estimated Repair Time: 30 minutes each

Preparation: Remove all Covers.

For RFID replacement, remove the Printer from the base**.** See the Removing the Baseplate procedure**.**

Important: This procedure can only be performed by authorized service personnel.

Step	Procedure
1	**Caution:** Turn OFF the Printer and unplug the power cord from the Printer. This procedure is used to replace the RFID Boards (A000365). The same procedure is used for both Supply Motors (D910723 and D910725).

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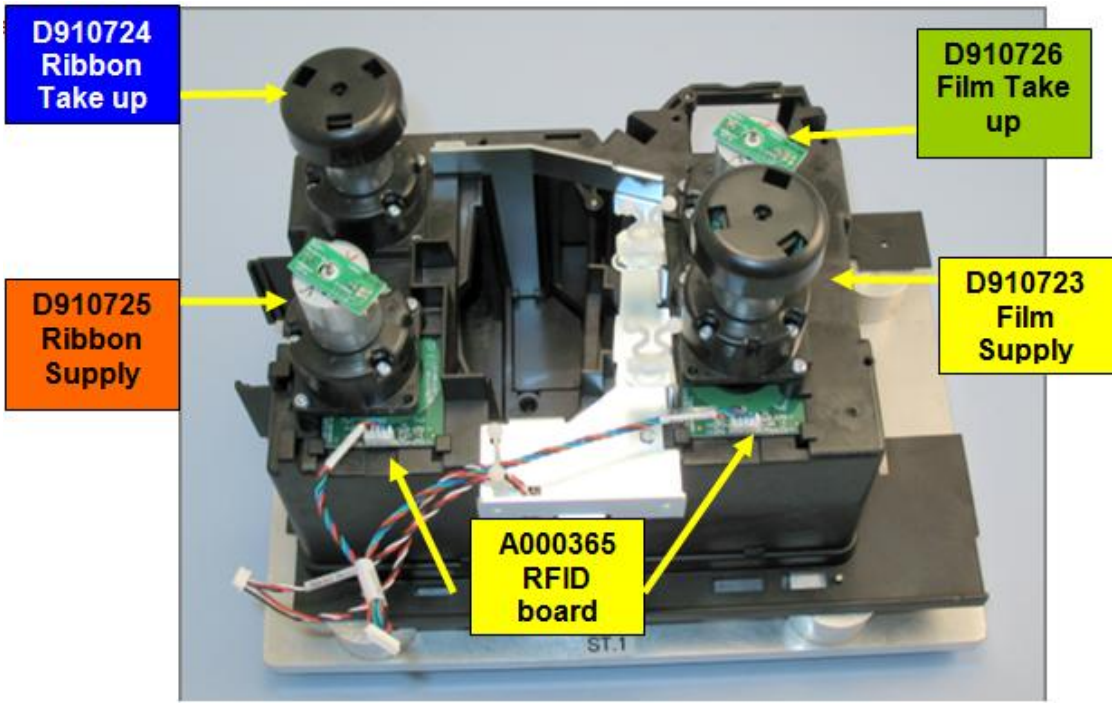
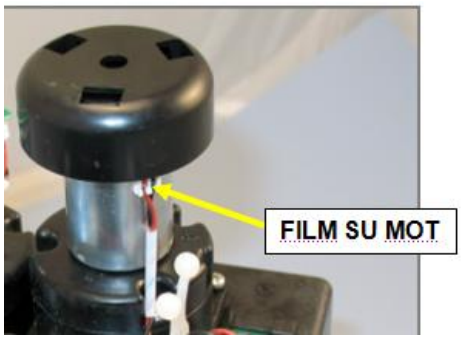
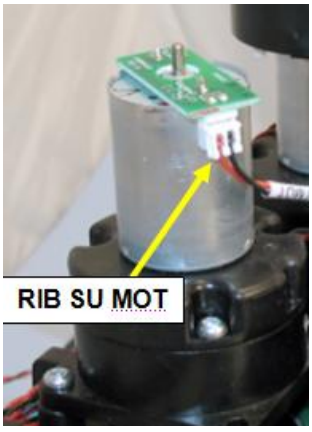
Step	Procedure
2	**Supply & Take-up Motors & RFID Board** 
3	**SUPPLY MOTORS** To remove Film Supply Motor (D910723) or the Ribbon Supply Motor (D910725). Disconnect the Motor/Fan cable Assembly (D910741) from the motor   Leave the black plastic Encoder wheel collar on the Film Supply Motor.

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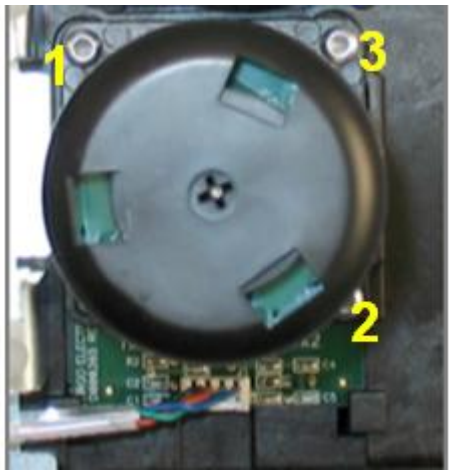
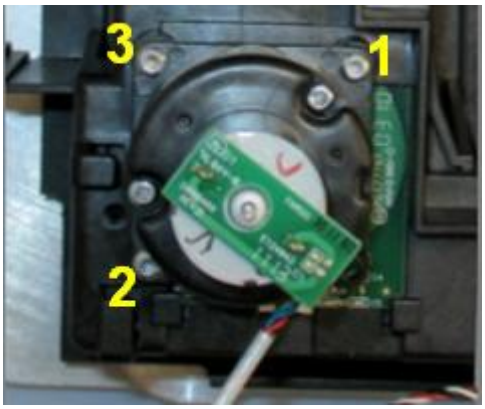
Step	Procedure
4	Remove the three (3) screws (F000463) that hold the Supply Motor to the Frame.  Film Supply Motor  Ribbon Supply Motor
5	Pull out the Supply Motor.
6	Replace it with the new Film Supply Motor (D910723 or Ribbon Supply Motor (D910725). Line up the screw holes. (**Note:** The Motor will only fit in one way.)

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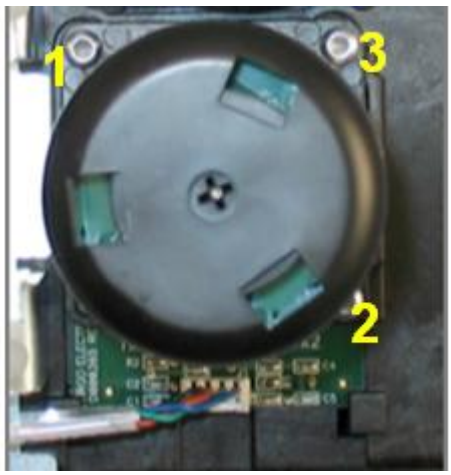
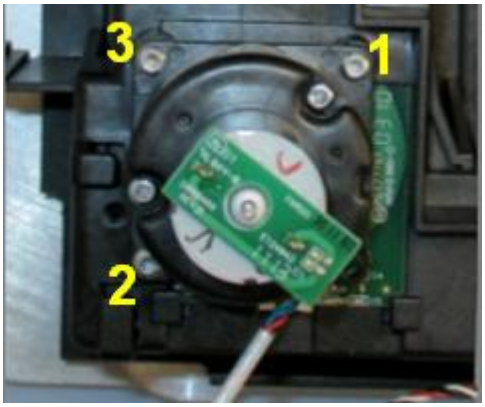
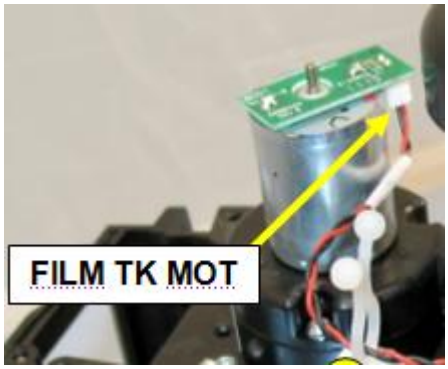
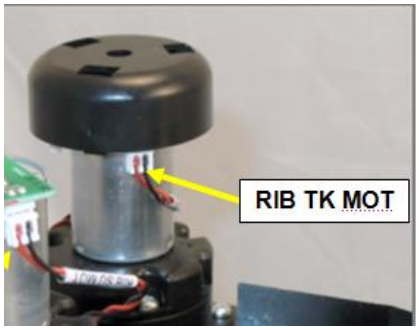
Step	Procedure
7	After replacing the supply motor tighten the screws in this order shown.  Film Supply Motor  Ribbon Supply Motor
	TAKE UP MOTOR
1	**TAKE UP MOTORS** To remove Film Take up Motor (D910726) or the Ribbon Take up Motor (D910724). Disconnect the Motor/Fan cable Assembly (D910741) from the motor  Film Take up Motor  Ribbon Take up Motor Leave the black plastic Encoder wheel collar on the Film Supply Motor.

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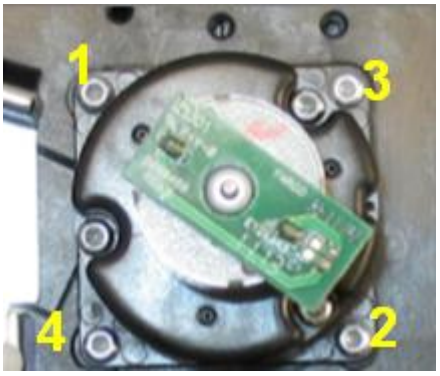
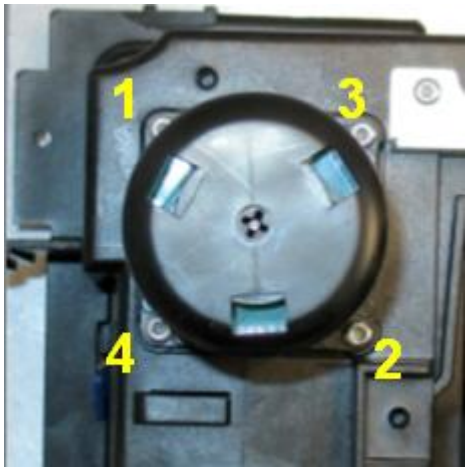
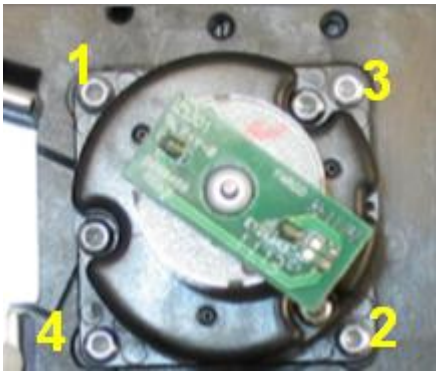
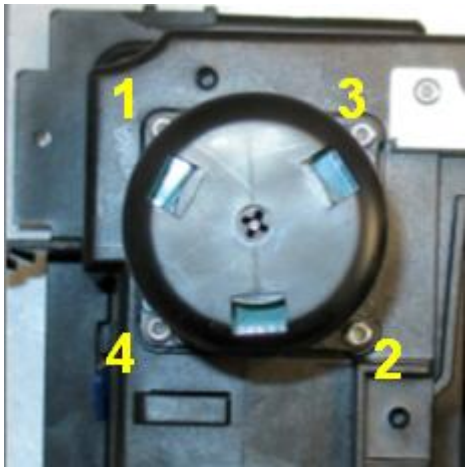
Step	Procedure
2	Remove the four (4) screws (F000463) that hold the Take up Motor to the Frame.  Film Take up Motor  Ribbon Take up Motor
3	Pull out the Take up Motor.
4	Replace it with the new Film Take up Motor (D910726) or Ribbon Take up Motor (D910724). Line up the screw holes. (**Note:** The Motor will only fit in one way.)
5	After replacing the Take up motor tighten the screws in this order shown.  Film Take up Motor  Ribbon Take up Motor

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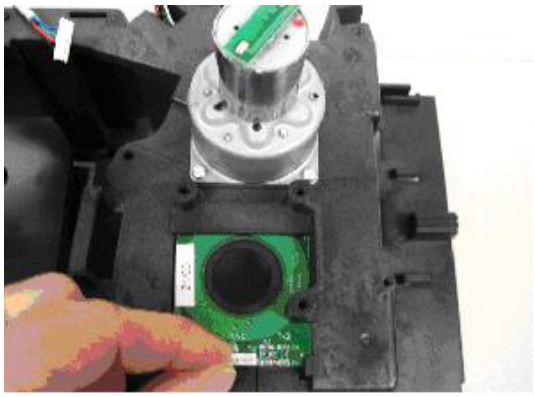
Step	Procedure
	RFID Replacement
1	**RFID Replacement** Remove the complete Printer body from the Baseplate to allow clearance to remove the RFID Board. See the Removing the Baseplate procedure**.**
2	To replace the RFID board; remove the appropriate Supply Motor according to the instruction above.
3	Disconnect the cable (D910209) from the RFID Board. Slide out the Board. 
4	Replace the RFID PCB Board (A000365).
5	Reverse the instructions to re-assemble.

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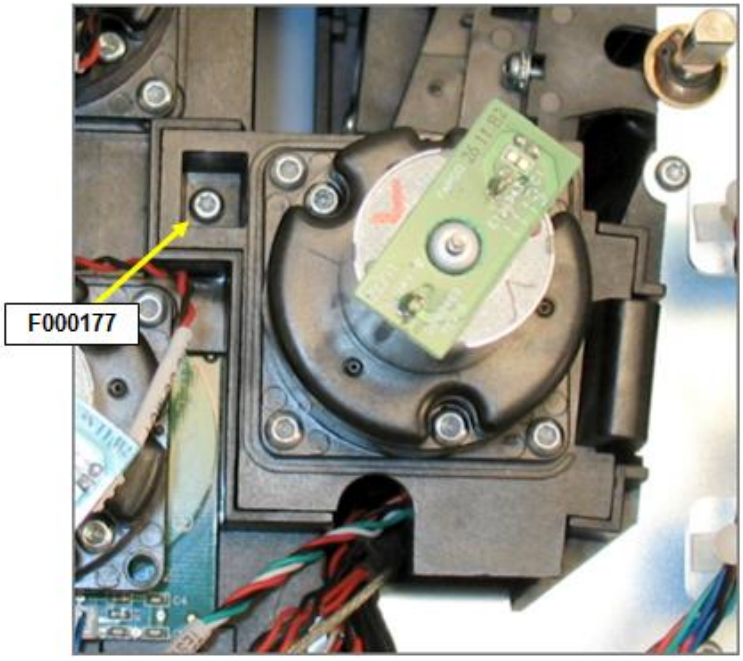
Replacing the Headlift Motor (D910052) and Headlift Sensor (D910216)

Tools needed: Torx screwdriver

Estimated Repair Time: 20 minutes

Preparation: Remove all Covers.

Important: This procedure can only be performed by authorized service personnel.

Step	Procedure
1	**Caution:** Turn OFF the Printer and unplug the power cord from the Printer.
2	Detach the Sensor wire (D910216) from the top of the Headlift Motor (D910052).
3	Remove the one (1) screw (F000177) that holds the Mount to the Frame. (**Note:** The Mount is flush with the Frame when properly fitted.) 

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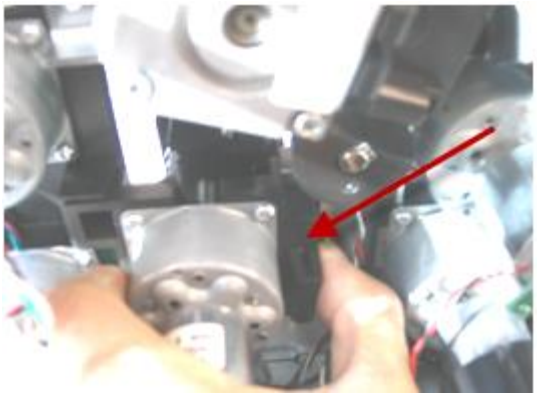
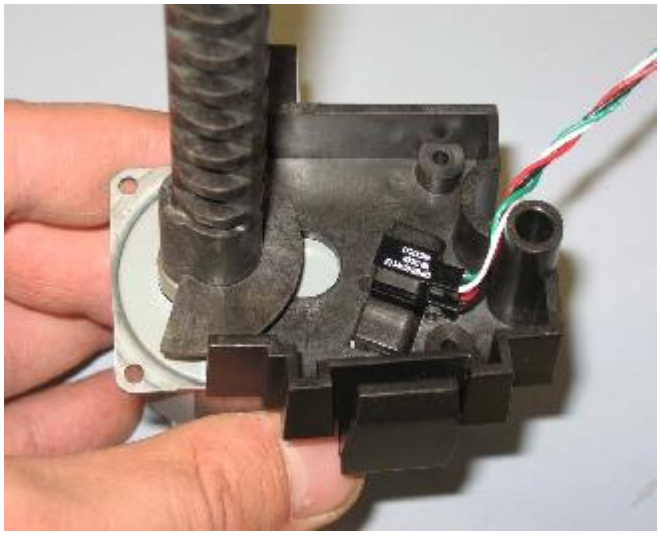
Step	Procedure
4	Pull out the Motor. Press the locking tab located on the right side of the Motor IN to release the Motor. 
5	a. Disconnect the Headlift Sensor from the Harness. b. Leave the Sensor (D910216) in the Mount (if not replacing it).
6	If you need to replace the Sensor use a small flathead screwdriver to release the Sensor. Move the flag from out of the Sensor area to clear the Sensor. a. Slide the Sensor out from the tabs. b. Replace it with the new Sensor and click it back into place. 

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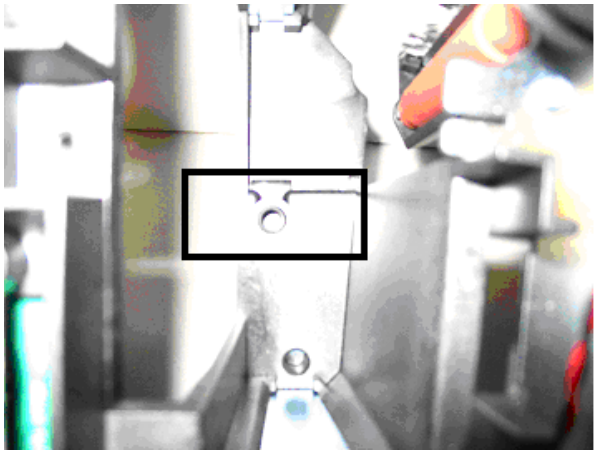
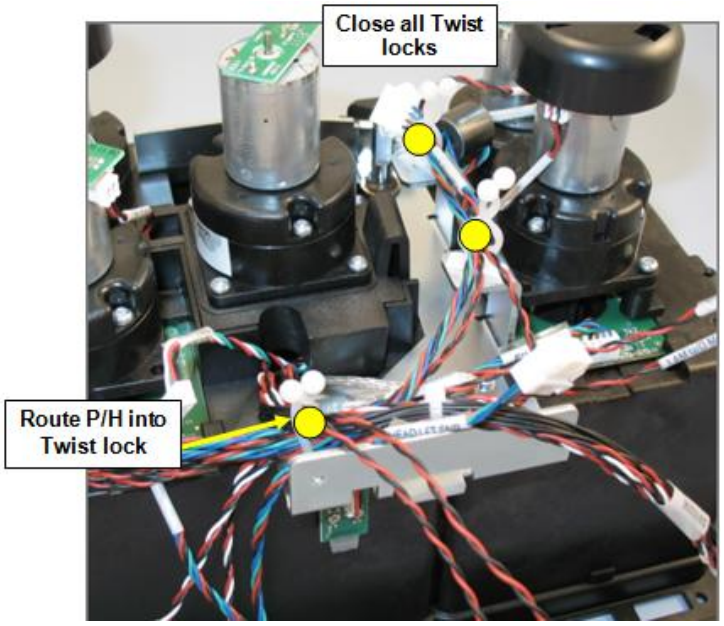
Step	Procedure
7	Replace the Headlift Motor. Ensure the Shaft tab fits in to the hole provided in the Frame. (**Note:** The top spine of the Shaft faces up. The point of the Shaft must fit into the Frame hole provided.) 
8	Reverse the instructions to re-assemble. **Caution:** Do not pinch the wires. Note how wires are feed through.
9	Routing wires 

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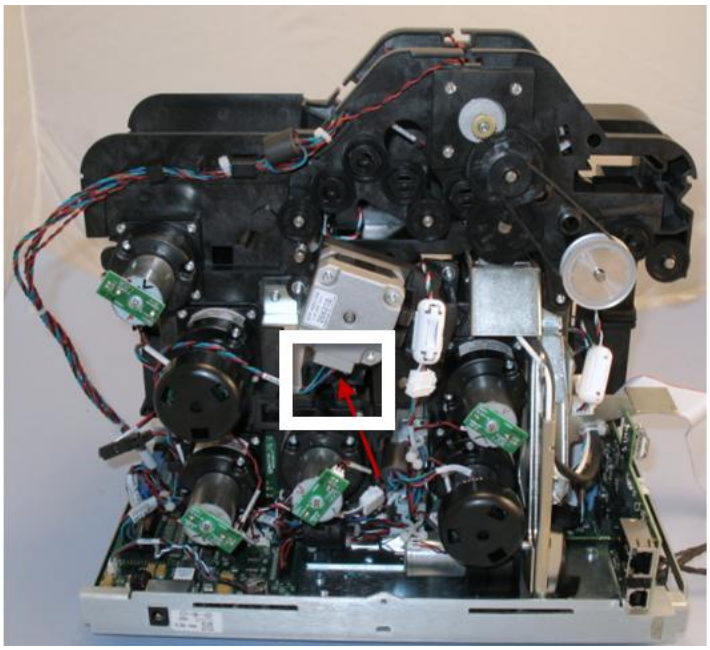
Replacing the Print Stepper Motor (D910727) and/or the Print Stepper Motor Belts (F000093; 2 belts) and/or the Print Motor Stepper Pulley (D840888)

Tools needed: 10 Torx screwdriver

Estimated Repair Time: 20 minutes

Preparation: Remove all Covers.

Important: This procedure can only be performed by authorized service personnel.

Step	Procedure
1	**Caution:** Turn OFF the Printer and unplug the power cord from the Printer.
2	Detach the Sensor wire from the Print Stepper Motor (D910727). 

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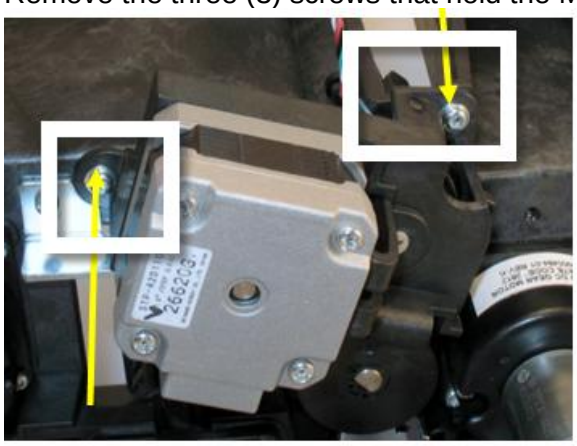
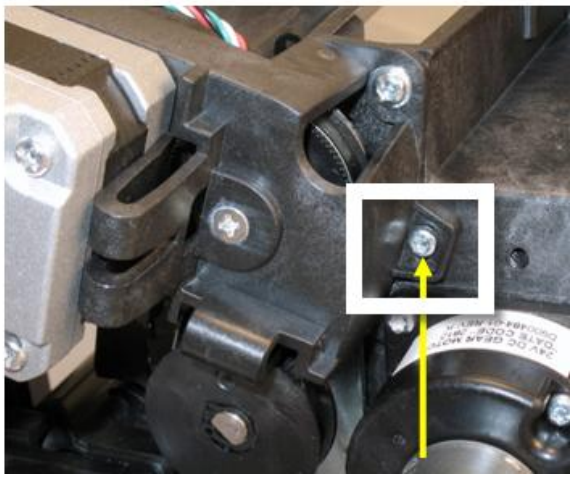
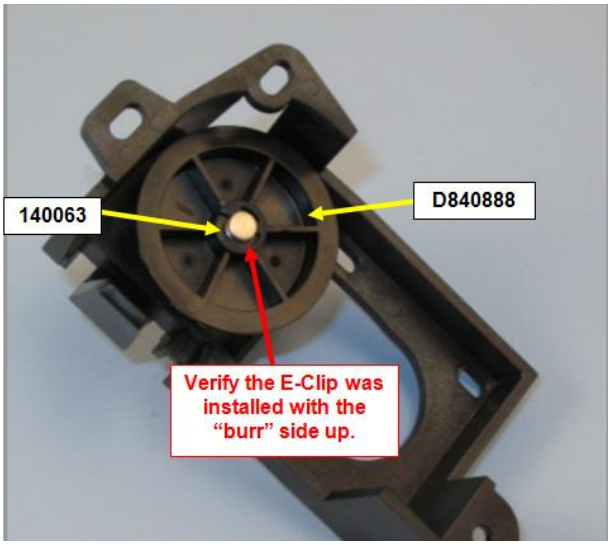
Step	Procedure
3	Remove the three (3) screws that hold the Motor (D910727) to the Frame.  
4	Roll the Motor (D910727 in a downward angle CCW to release the Print Stepper Motor Belt (F000093) from the Pulley.
5	a. Check the Belts and Pulley for excessive wear. b. Replace the Belt (F000093) or the Pulley (D840888).
6	a. If replacing the Gear, remove the clip (140063) that attaches the Gear to the Shaft. b. Replace it with the new Gear (D840888). c. Replace the clip on the Shaft. 

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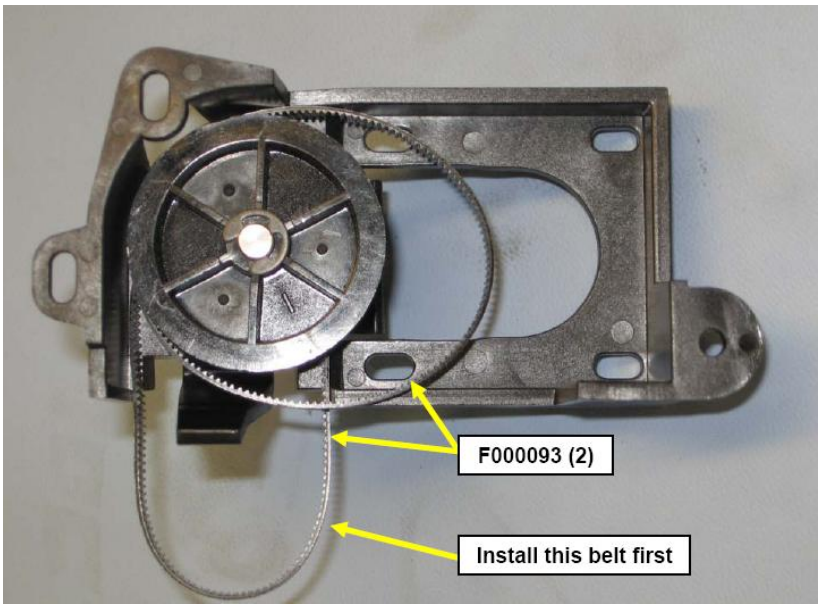
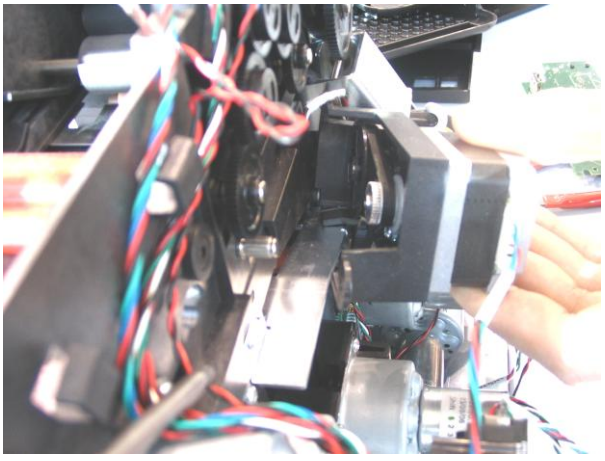
Replacing the Print Stepper Motor (D910727) and/or the Print Stepper Motor Belts (F000093- 2 used) and/or the Print Motor Stepper Pulley (D840888)

Step	Procedure
7	Replace the two (2) Print Stepper Motor Belts (F000093-2) as needed. (**Note:** One of the Belts goes around the Print Platen Roller Gear (D910109) 
8	When replacing the motor first attach the Belt to pulley first then roll the Motor up to set Into place. 

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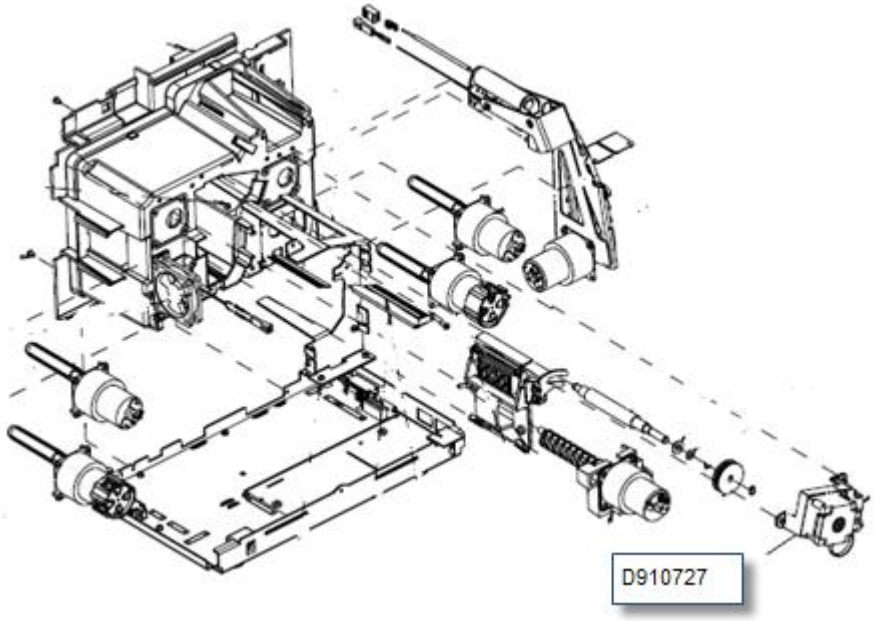
Step	Procedure
9	This stepper Motor Mount provides a self adjusting feature. a. Keep the three (3) screws loose while holding the Mount Frame. b. Allow the Belts to self-adjust. Then tighten the screws.
10	Reverse the instructions to re-assemble.



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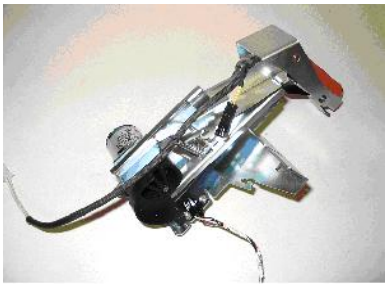
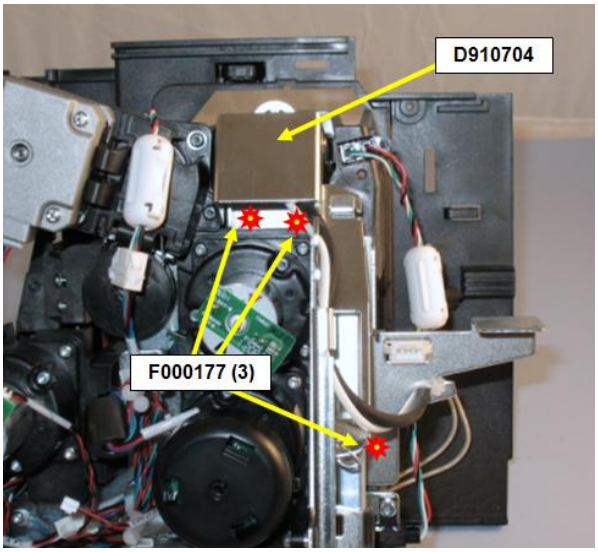
Replacing the Lamination Mechanism (D910704) (Transfer Arm)

Only the Motor and Sensor is field replaceable. For any other parts please replace complete assembly.

<table>
<tr><td>  </td><td>Tools needed: 10 Torx screwdriver
Estimated Repair Time: 20 minute
Preparation: Remove all Covers.
Important: This procedure can only be performed by authorized service personnel.</td></tr>
<tr><th>Step</th><th>Procedure</th></tr>
<tr><td>1</td><td>Caution: Turn OFF the Printer and unplug the power cord from the Printer.
Important: Card path removal makes parts removal easier. Relates to other procedures.</td></tr>
<tr><td>2</td><td>This procedure is used to replace the Motor (D910072) and the Lift Sensor (D910216).
a. Remove the three (3) screws that attach the lamination mechanism (D910704) to the
  </td></tr>
<tr><td>3</td><td>Turn printer over to remove the one (1) screw at the baseplate</td></tr>
<tr><td>4</td><td>Unplug the Sensor wire and the heater wire from the Main Board Assembly.</td></tr>
<tr><td>5</td><td>Reverse the instructions to re-assemble.</td></tr>
</table>

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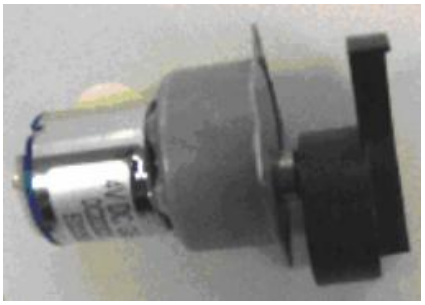
Replacing the Lamination Mechanism Lam Cam Motor (D910072)

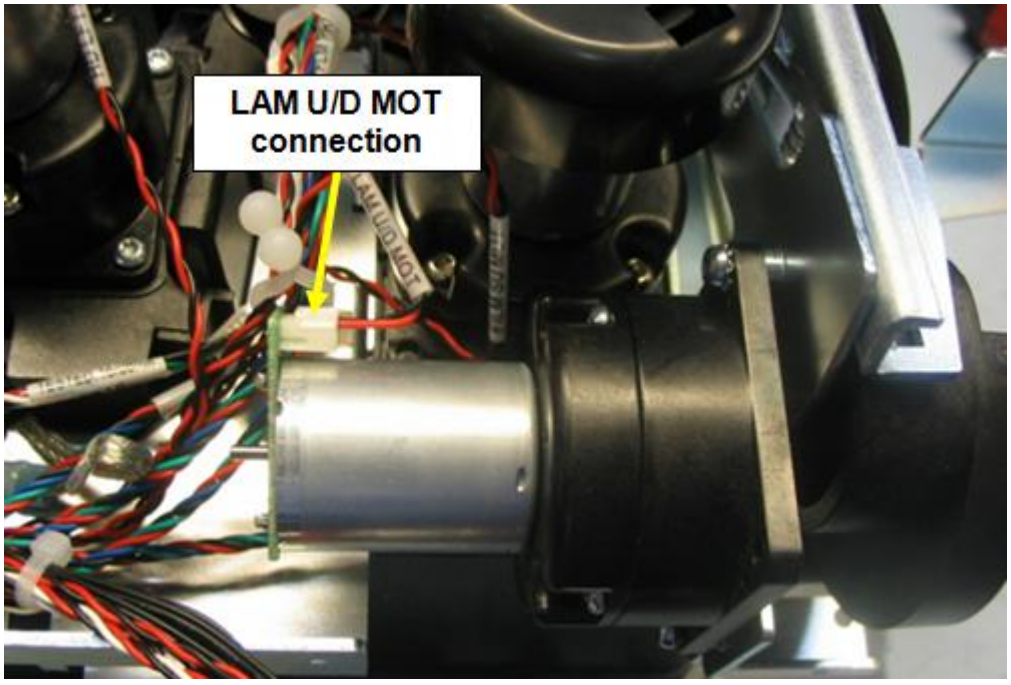


Tools needed: 10 Torx screwdriver

Estimated Repair Time: 20 minutes

Preparation: Remove all Covers.

Important: This procedure can only be performed by authorized service personnel.

Step	Procedure
1	**Caution:** Turn OFF the Printer and unplug the power cord from the Printer. **Important:** Card path removal makes parts removal easier. Relates to other procedures.
2	This procedure is used to replace the Motor (D910072) and the Lift Sensor (D910216) Unplug the Sensor wire from the top of the Motor. 

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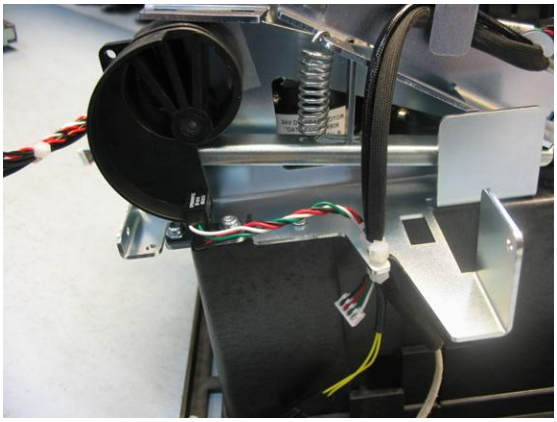
Step	Procedure
3	Remove the three (3) screws that attach the Motor to the Transfer Arm frame.
4	Be careful of the Sensor when removing and replacing the Motor Cam. • Move the Cam to the side to clear the Sensor. 
5	Replace the Motor (D910072).
6	Reverse the instructions to re-assemble.

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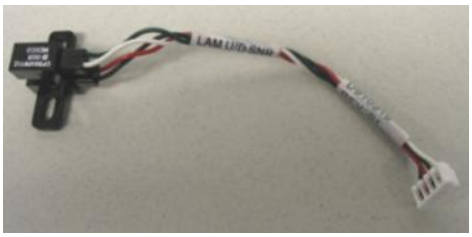
Replacing the Lamination Mechanism Lam Cam Sensor (D910216)

	**Tools needed:** 10 Torx screwdriver **Estimated Repair Time:** 20 minute **Preparation:** Remove all Covers. **Important:** This procedure can only be performed by authorized service personnel.

Step	Procedure
1	**Caution:** Turn OFF the Printer and unplug the power cord from the Printer. **Important:** Card path removal makes parts removal easier. Relates to other procedures.
2	This procedure is used to replace the Motor (D910072) and the Lift Sensor (D910216). • Unplug the Sensor wire from wire Harness.
3	Remove the two (2) screws that attach the Sensor to the Lamination Mechanism Frame.
4	Replace the Sensor (D910216).
5	Reverse the instructions to re-assemble.

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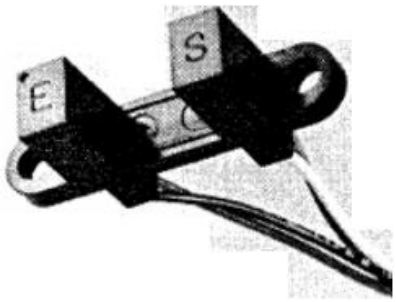
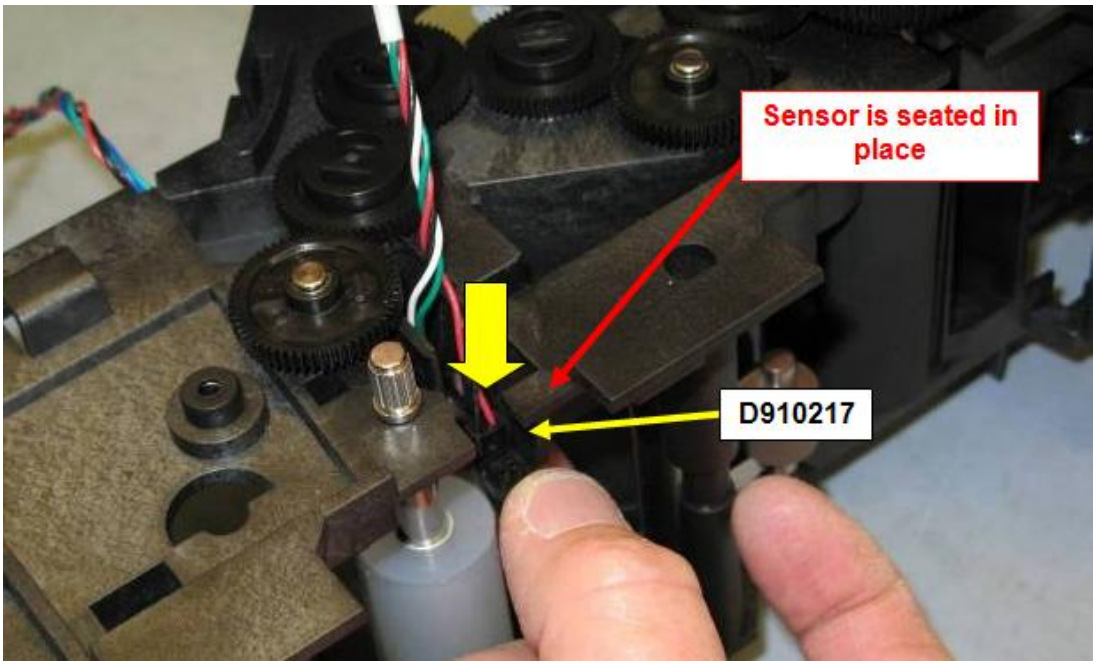
Sensor Replacement

Replacing the Card Path Sensor (D910217)

<table>
<tr><td> 
</td><td>Tools needed: small flathead screwdriver
Estimated Repair Time: 20 minutes
Preparation: Remove all Covers.
Important: This procedure can only be performed by authorized service personnel.
Located in the Card Path (D910721)</td></tr>
<tr><th>Step</th><th>Procedure</th></tr>
<tr><td>1</td><td>Caution: Turn OFF the Printer and unplug the power cord from the Printer.</td></tr>
<tr><td>2</td><td>Remove the Card Path to access the sensor.
#Replacing the Card Path Assembly
 
</td></tr>
</table>

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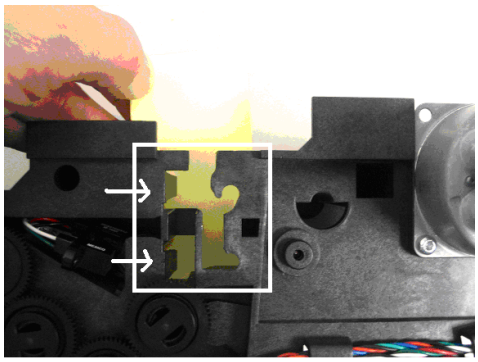
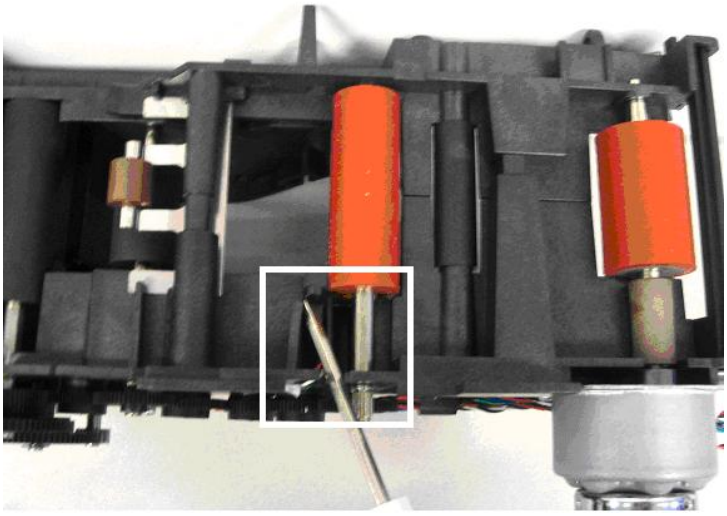
Step	Procedure
3	Disconnect the sensor cable (D910742)
4	**Caution:** The Card Path Sensor is clipped in. Be careful. Do not to force this Sensor to come loose. • Use a small flathead screwdriver to gently pry the two (2) tabs that hold this Sensor in place. • Slide the Sensor out.  Indicates the two (2) tabs that hold the Sensor in place. Be careful not to damage the Sensor in the process.
5	Note the screwdriver leverage needed to hold the tab back away from the Sensor. You would need to loosen two (2) tabs. 

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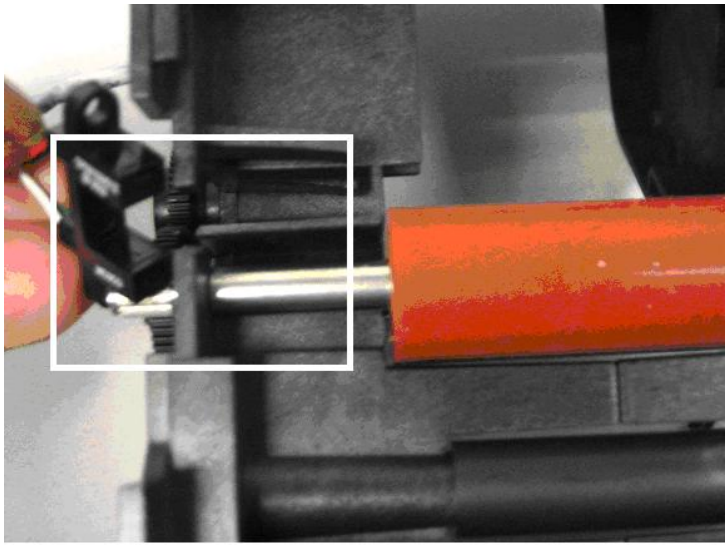
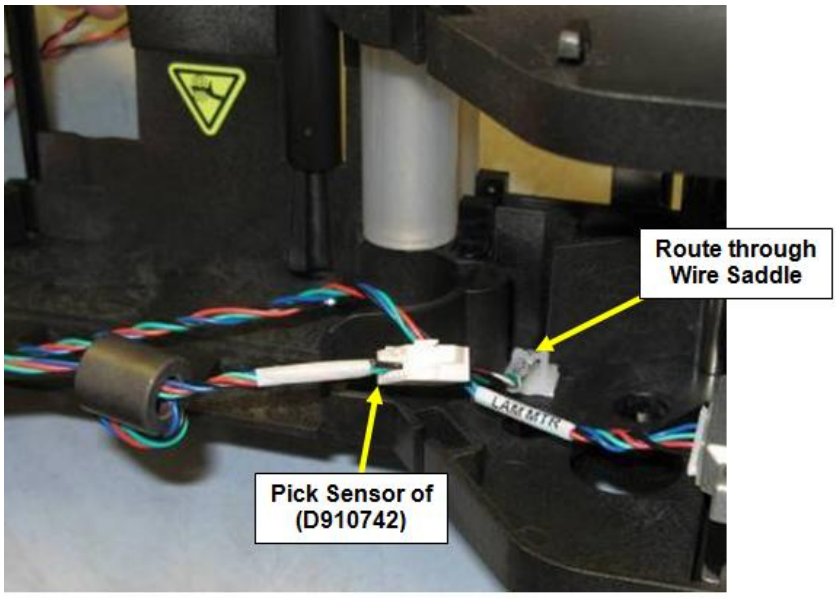
Replacing the Card Path Sensor (D910217) (continued)

Step	Procedure
6	Replace the Card Sensor by snapping into place. (**Note:** The tabs will click when the Sensor is properly installed.) 
7	Reverse the instructions to re-assemble. Wire routing.  Note: Verify Sensor is seated in place, not touching the Cleaning Roller.

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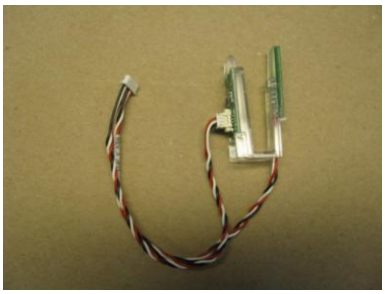
Replacing the Ribbon Sensor (D910556)



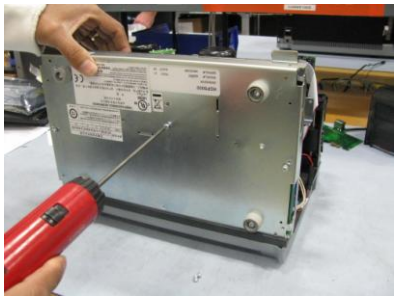
Tools needed: 10 Torx screwdriver

Estimated Repair Time: 30 minutes

Preparation: Remove the Covers.

Important: This procedure can only be performed by authorized service personnel.

Located on the Mechanism.

Step	Procedure
1	**Caution:** Turn OFF the Printer and unplug the power cord from the Printer.
2	Remove the Covers.
3	Remove the base plate with the Mainboard attached Remove the 3 screws that hold the base plate to the printer frame.  Plus the 2 screws of the bottom front frame. NOTE: While the procedure can be done with the base plate in place it may offer better access if removed entirely).

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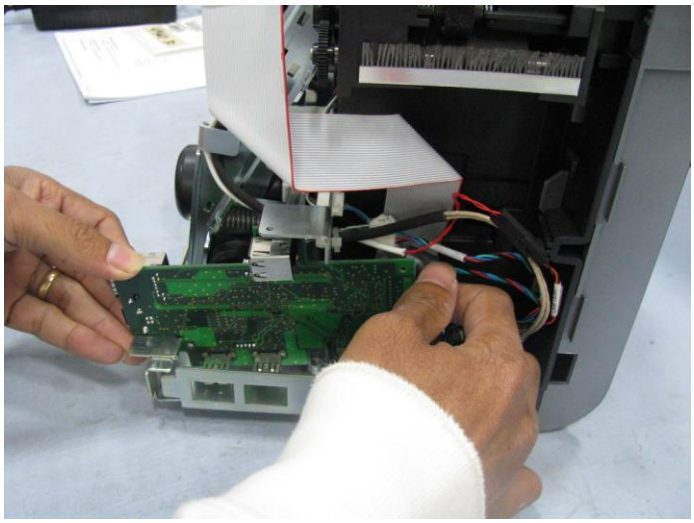
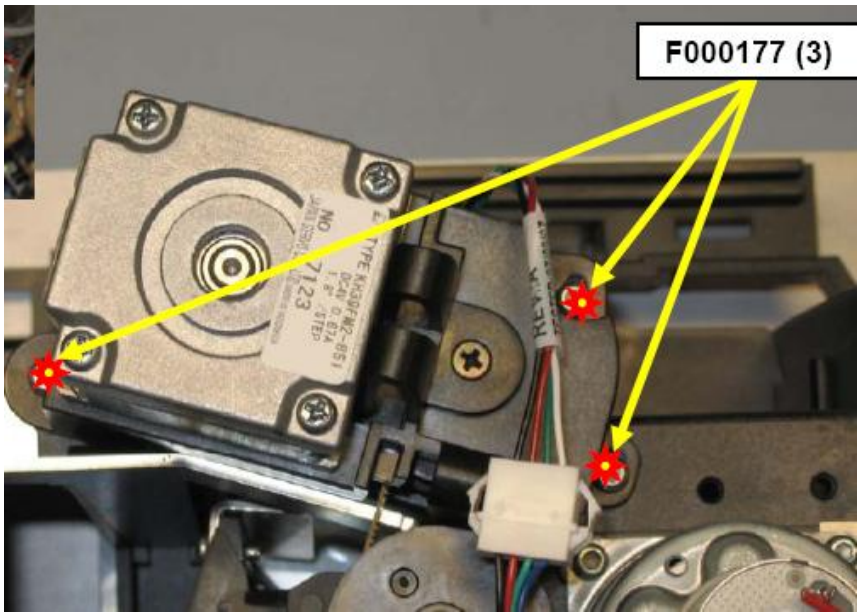
Step	Procedure
4	Remove the Communication board. 
5	Remove the Print (Platen) Stepper Motor. 3 screws hold the motor to the frame. NOTE: When replacing the motor it is self tensioning.  See Replacing the Print Stepper Motor (D910727) and/or the Print Stepper Motor Belts (F000093; 2 belts) and/or the Print Motor Stepper Pulley (D840888)

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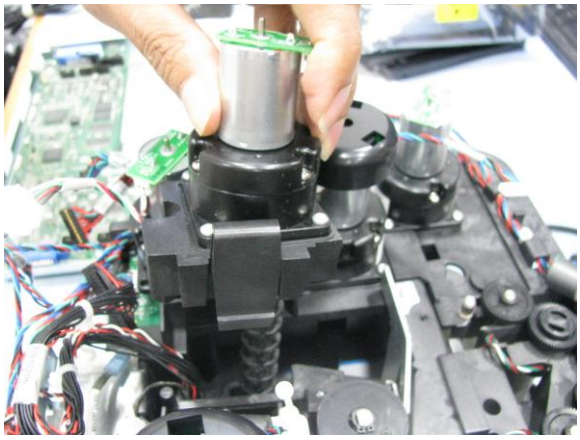
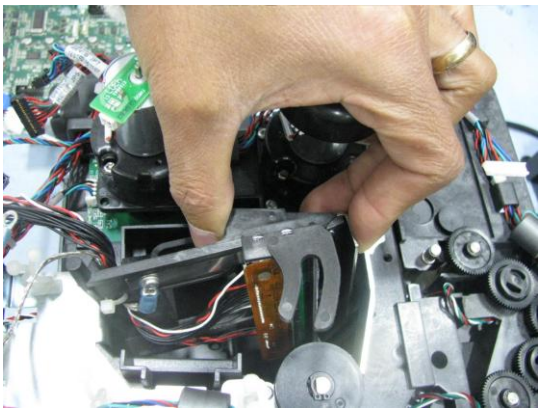
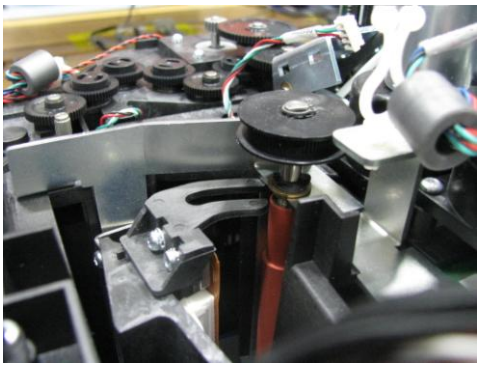
Step	Procedure
6	Remove the Printhead Cam (Headlift) Motor. 
7	Remove the Printhead assembly.  See HDP5000 Printhead Assembly Kit (086091) Replacement Guide
8	Remove the Print Platen Roller. 

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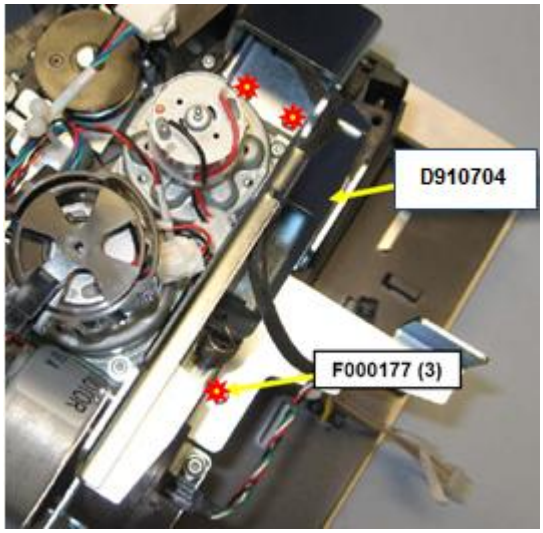
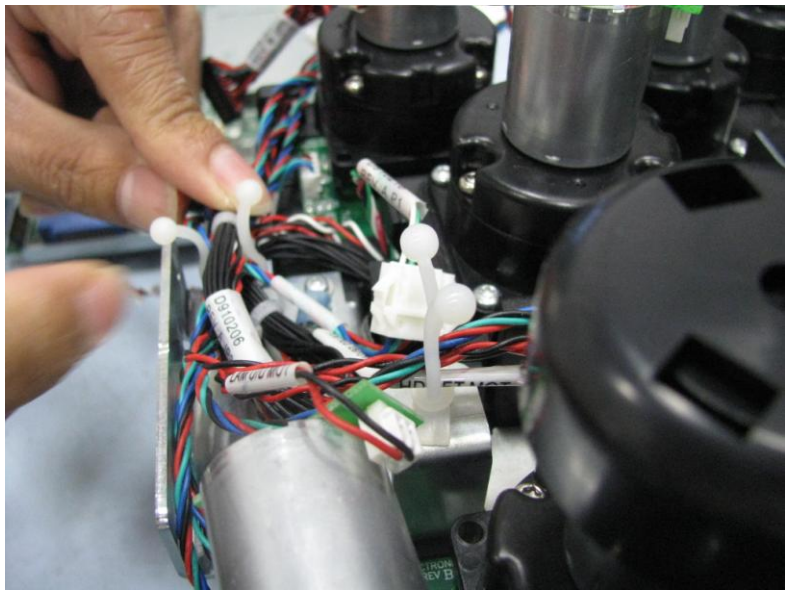
	See Replacing the Print Platen Roller (D910109)
Step	**Procedure**
9	Shift the transfer roller assembly over to the side. There are 3 screws that secure this. It is not necessary to remove the complete assembly. 
10	Remove the wires from the various parts to gain clearance. The wires are held together with white plastic clip holders. 

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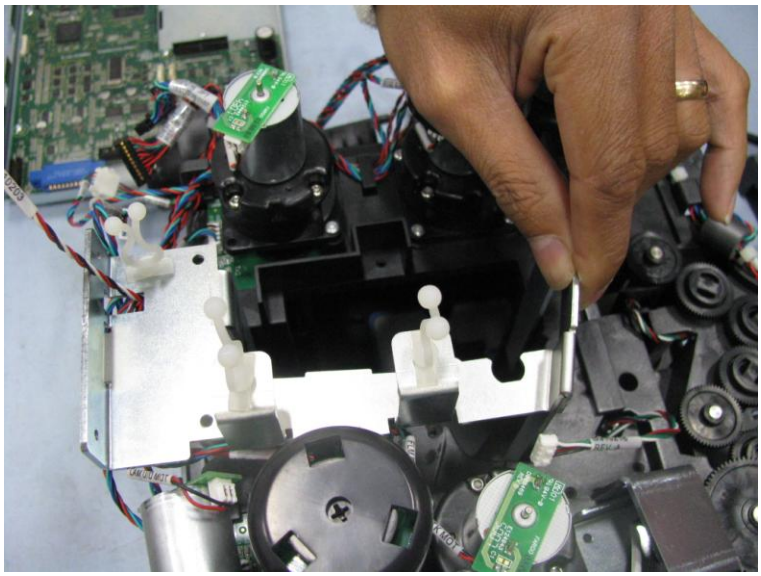
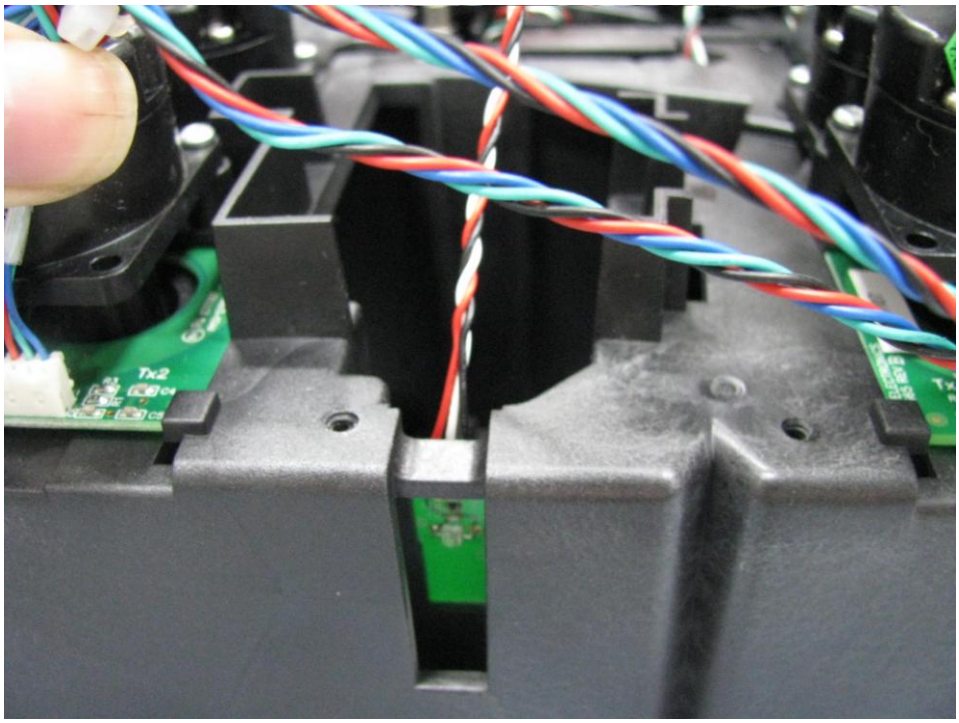
Step	Procedure
11	Remove the metal bracket from the frame. There are 4 screws that secure this to the frame. 
12	Locate the Ribbon Sensor location and remove the old one. 

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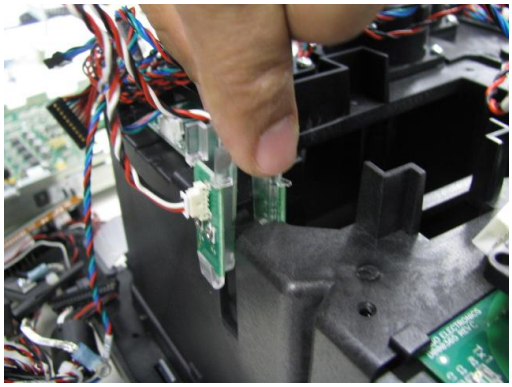
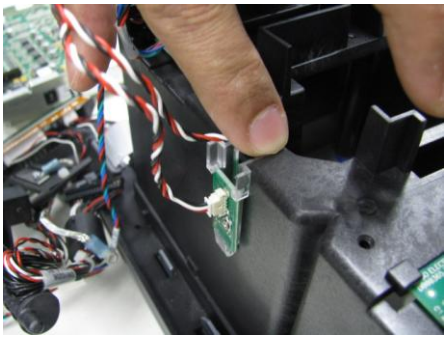
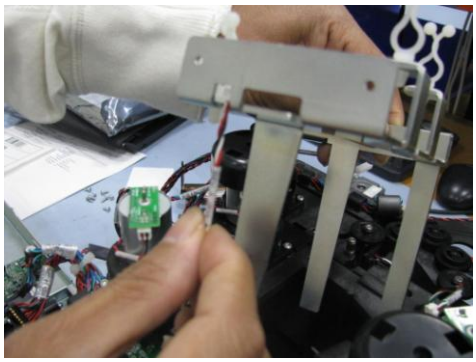
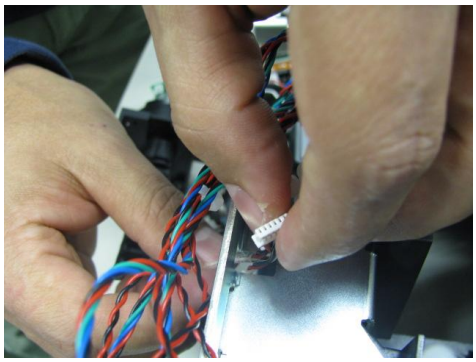
Step	Procedure
13	To install the new sensor, position the new sensor in the same location and push down to click it into place. NOTE: The white wire connector is to the outside.  
14	Feed the sensor cable into the Bracket frame slot.  
15	Reassembly all parts using reverse assembly process. Be careful not to pinch any wires. Plug the new sensor to the mainboard location JP11.
16	Procedure is now completed.

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HDP Printhead Assembly Kit (086091) Replacement Guide

Tools needed: 10 Torx screwdriver, small flathead screwdriver

Estimated Repair Time: 20 minutes

Important:

- This procedure can only be performed by authorized service personnel.
- The Printhead will come with the cable harness attached.

Step	Procedure
1	**Caution:** Turn OFF the Printer and unplug the power cord from the Printer.
2	Remove the Ribbon Cartridge (D910022).
3	a. Remove the Back Cover (D910821-01). b. Remove the screw at the base of the Back Cover Assembly. c. Use a small screwdriver to pry the center tab slot to release the Cover. d. Bend out and down to remove from the lower tab slots.

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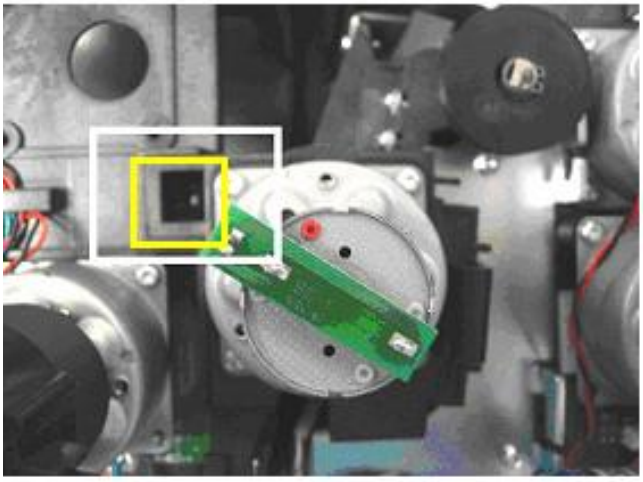
HDP Printhead Replacement Guide (continued)

Step	Procedure
4	a. Remove the Headlift Motor (D910052). b. Remove the one (1) screw that holds the Motor Mount to the Frame, as shown below. (**Note:** The Mount should be "flush" with the Frame when properly fitted.) 
5	Remove the ground strap of the Printhead.
6	Unplug the Printhead cable from the Main Board.
7	Carefully lift out the complete Printhead Assembly.
8	a. Replace the complete Printhead Assembly. b. Replace the Printhead cable and ground strap. c. Replace the Headlift Motor (D910052). **Caution:** When replacing the Printhead Assembly, ensure that the Printhead surface does not get scratched by any other Printer parts.

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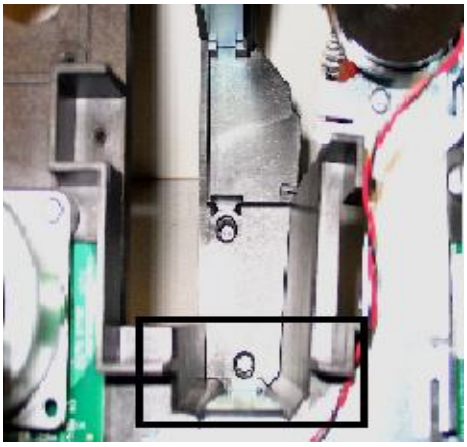
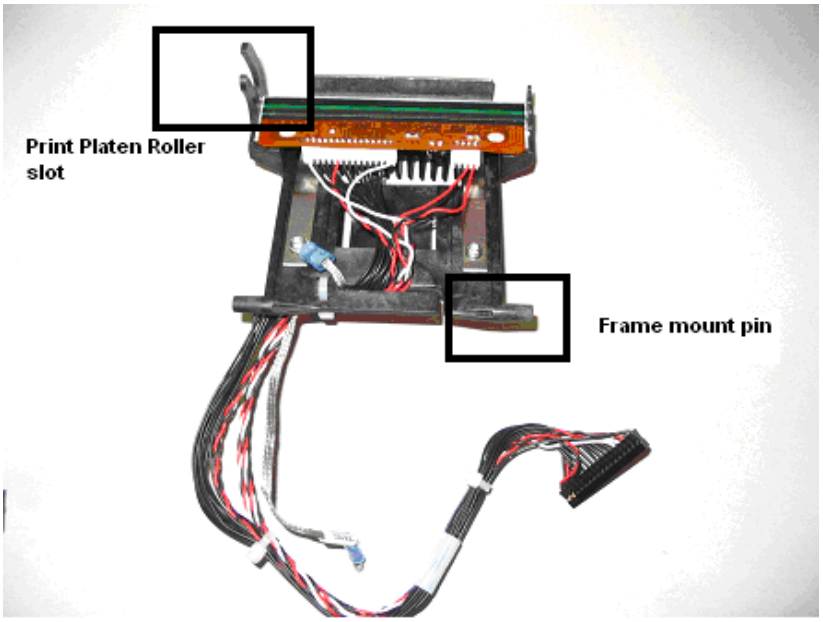
HDP Printhead Replacement Guide (continued)

Step	Procedure
9	Fit the Frame Mount pin into the slot, provided within the Printer Frame. (**Important:** It must click down solidly into the exact hole, as shown below.) Display – Frame Mount Pin (Step 9)  Display – Print Platen Roller Slot and Frame Mount Pin (Step 9) 

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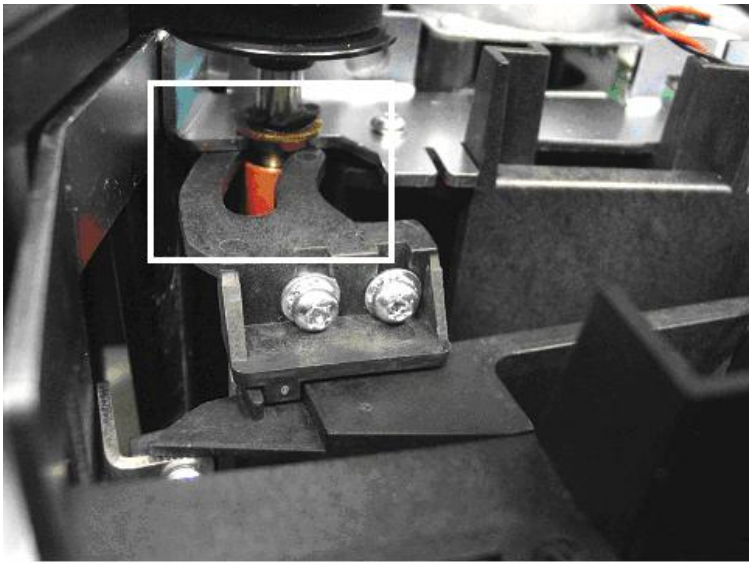
HDP Printhead Assembly Replacement Guide (continued)

Step	Procedure
10	Note how the Print Platen Roller Slot would fit properly onto the Roller bushing, as shown from the back side (below). 
11	**You have completed this procedure.**

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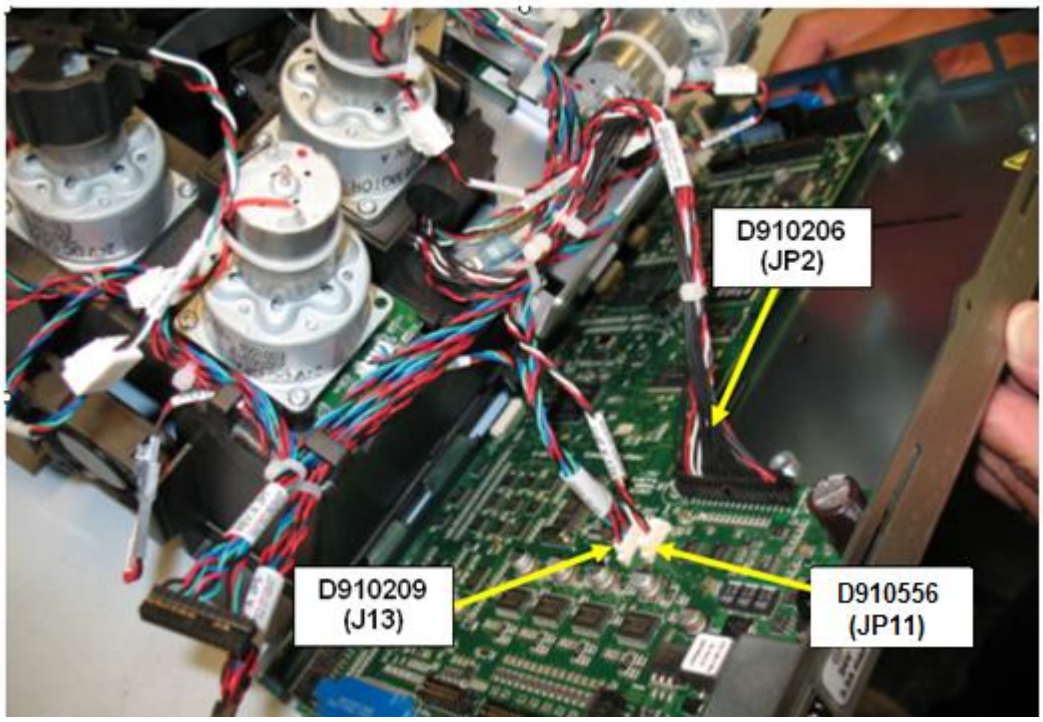
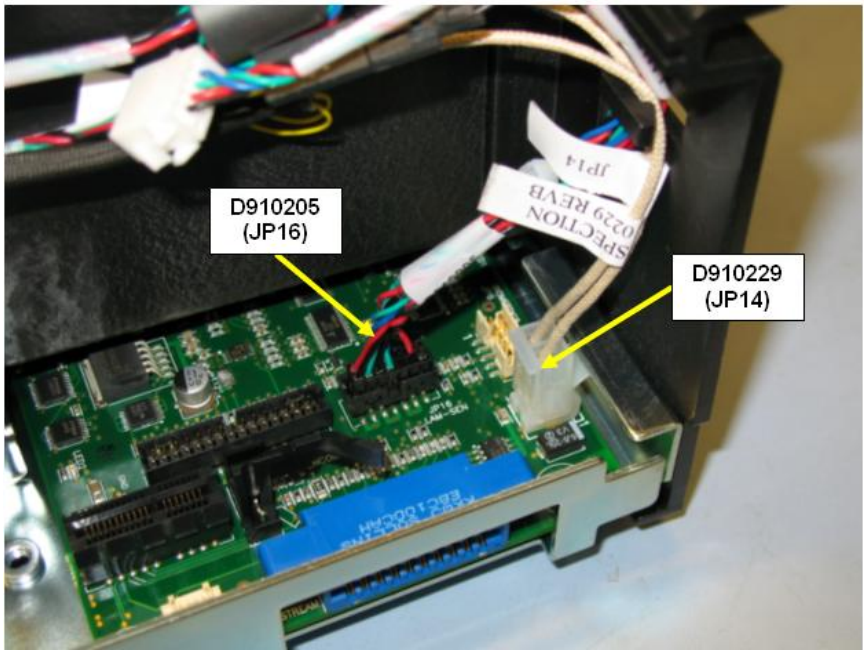
HDP Mainboard Cable Connection

Reviewing the HDP Printer Main Board connections





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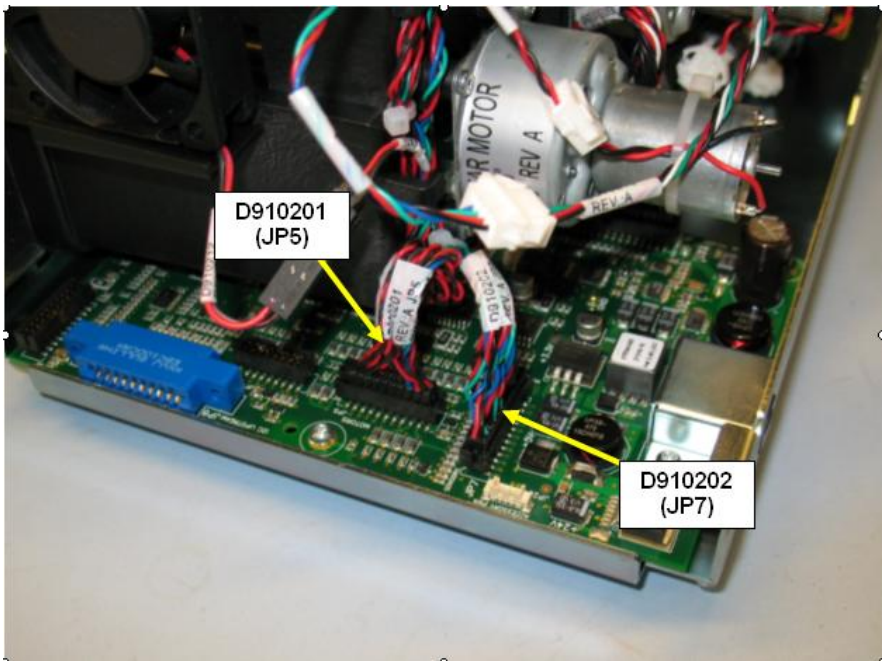
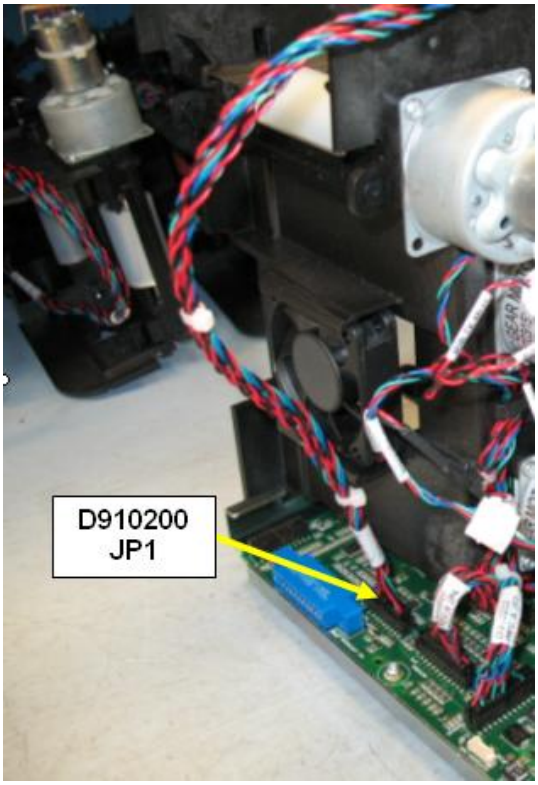
Reviewing the HDP Printer Main Board connections





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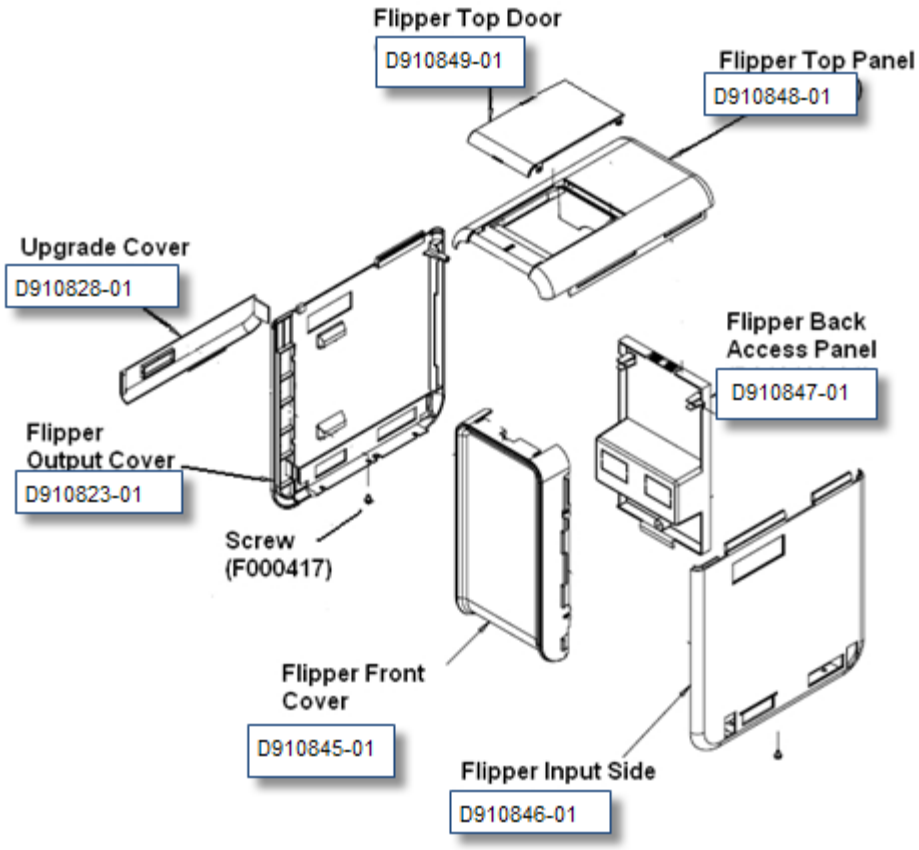
HDP5000 Flipper Module Replacement Procedures

Flipper Module Cover Removal Procedures

Use this procedure for the replacements of all parts. All Covers must be removed to access the parts within the module.

- The HDP5000 Printer now uses fewer screws to attach parts such as the Covers and Sensors. Many of the parts are simply snapped.
- Be careful not to force any of the snapping parts as they could break with too much pressure.

Most of the Sensors and the Rollers simply SNAP IN and OUT for attachment.



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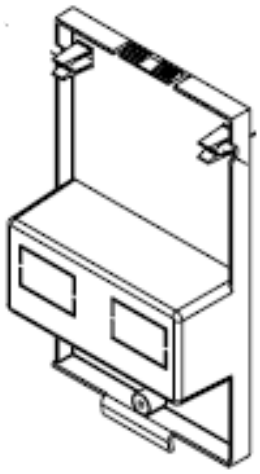
Replacing the Flipper Back Access Assembly (D910847-01)



Tools needed: 10 Torx screwdriver

Estimated Repair Time: 5 minutes

Important: This procedure can only be performed by authorized service personnel.

Step	Procedure
1	**Caution:** Turn OFF the Printer and unplug the power cord from the Printer.
2	a. Use a flat screwdriver to gently pry the Access Cover out from the top slot. b. Fold it down to open it. c. Release the tab from the slot on the bottom Frame.
3	Reverse the instructions to re-assemble.

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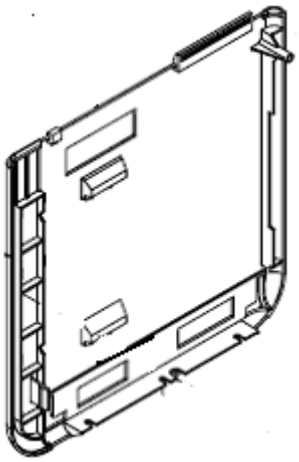
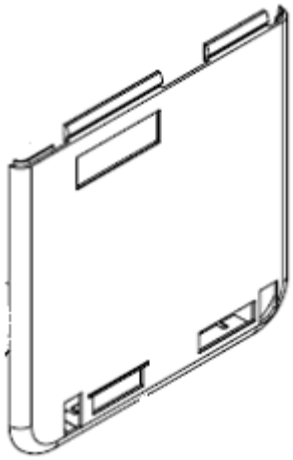
Replacing the Output Side Cover (D910823-01) and Input Side Covers (D910846-01)



Tools needed: 10 Torx screwdriver

Estimated Repair Time: 5 minutes

Important: This procedure can only be performed by authorized service personnel.



Step	Procedure
1	**Caution:** Turn OFF the Printer and unplug the power cord from the Printer.
2	Remove the Back Cover first.
3	Turn the Flipper Module over and loosen the two (2) Torx screws, located on the base plate.
4	Lift it up from the bottom to release the top tabs on both sides.
5	Reverse the instructions to re-assemble.

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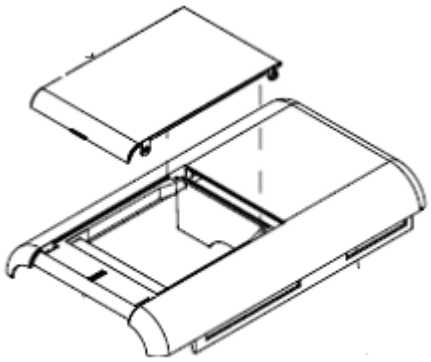
Replacing the Top Cover (D910848-01)



Tools needed:

Estimated Repair Time: 5 minutes

Important: This procedure can only be performed by authorized service personnel.

Top Door D910849-01

Step	Procedure
1	**Caution:** Turn OFF the Printer and unplug the power cord from the Printer.
2	a. Remove the Back Cover. b. Remove the two (2) Side Covers.
3	Lift off the Top Cover (D910848-01). (**Note:** Leave the Top Door attached.)
4	Reverse the instructions to re-assemble.

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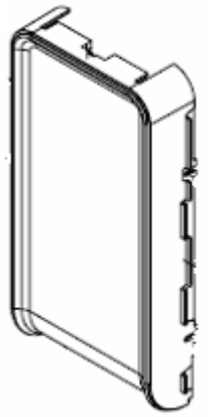
Replacing the Flipper Front Cover (D910845-01)



Tools needed: 10 Torx screwdriver

Estimated Repair Time: 5 minutes

Important: This procedure can only be performed by authorized service personnel.

Step	Procedure
1	**Caution:** Turn OFF the Printer and unplug the power cord from the Printer.
2	a. Remove the Back Cover. b. Remove the two (2) Side Covers.
3	Lift off the Top Cover. (**Note:** Leave the Top Door attached.)
4	Loosen the two (2) screws on both sides of the Front Cover.
5	Lift the Front Cover off from the Frame.
6	Reverse the instructions to re-assemble.

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Replacing the Flipper Module Gears (D860280) and (810266)

Idler Pulley (D900241) Main Pulley (D850190) Pulley (D900287) Card Transport drive Gear (810266) Gear (D860280) Belt (220082)	**Tools needed:** 10 Torx screwdriver **Estimated Repair Time:** 30 minutes **Preparation:** Remove the Covers. Remove the Card Feed Motor. Remove the Main Board. **Important:** This procedure can only be performed by authorized service personnel.

1	**Caution:** Turn OFF the Printer and unplug the power cord from the Printer.
2	Remove all the Covers.
3	Remove the Card Feed Motor (D900524). See Replacing the Card Feed Motor (D900524; contains E000062 and D900208) .
4	Remove the Main Board. See Replacing the Flipper Main Board (A000394).
5	Use the above procedures in Steps 1 to 4 to make the printer ready for all Gear and Belt replacements. Reverse assembly after each procedure.
6	Remove the one (1) screw that holds each of the Idler Pulley (D900241) to the Frame. (**Note:** Replace it with the new Gear or Gears.)
7	To replace the Belt (220082) only, the upper Idler Pulley (D900241) needs to be removed. (**Note:** Replace it with the new Belt.)
8	To replace the Pulley (D900287), remove the lower Idler pulley (D900241) and Belt (220082). (**Note:** Loosen the set screw in the pulley to remove it.) • The neck of the Gear goes up when replaced.

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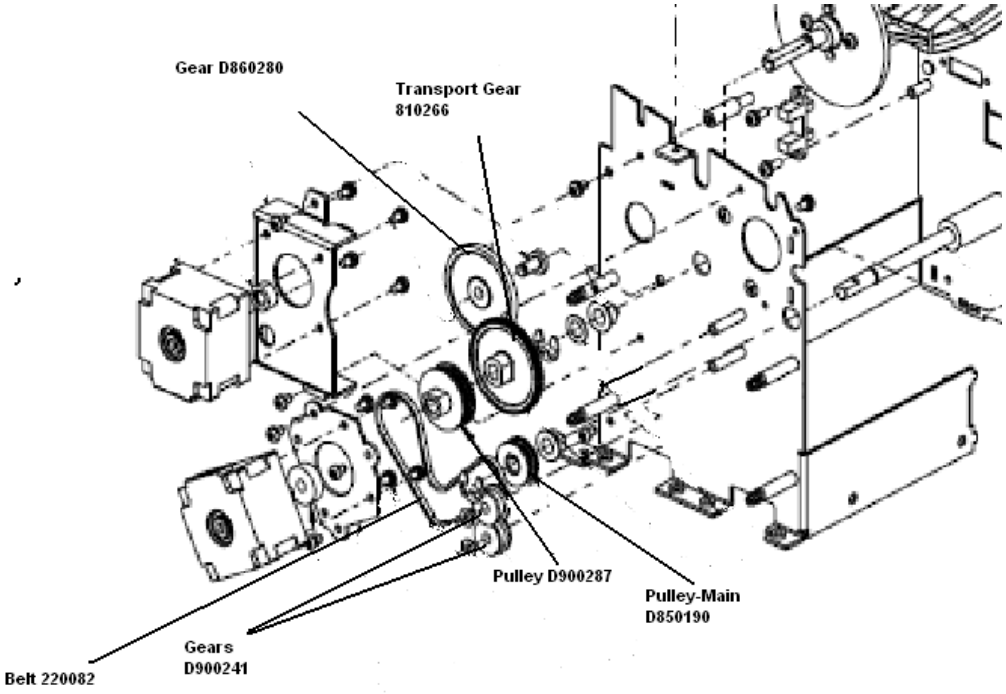
Replacing any of the Flipper Module Gears (Continued)

Step	Procedure
9	To replace the Main Pulley (D850190), follow Steps 1 to 6. (**Note:** Remove the lower Idler Pulley to allow clearance for removal of Main Pulley.) • Replace it with the new pulley (D850190). This pulley has an inner rib that must be carefully replaced by tilting the flat side in first the press in the pulley to the Shaft.
10	To replace the Gear (D860280), follow Steps 1 to 7. (**Note:** The Lower Idler Pulley (D900241), the Belt (220082), the Pulley (D900287) and the Stepper Motor must be removed to access the Gear (D860280).) • Remove the E-Clip from the Gear (D860280) Shaft. Replace it with the new Gear. (**Note:** The neck of the Gear (D860280) goes in.)
11	To replace the Card Transport Drive Gear (810266), follow Steps 1 to 9. • Remove the Gear. Replace it with the new Gear. (**Note:** The neck of the Gear goes out.)
12	To replace the Main Pulley (D850190), follow Steps 1 to 6. Pull up on the pulley. Replace it with the new pulley.



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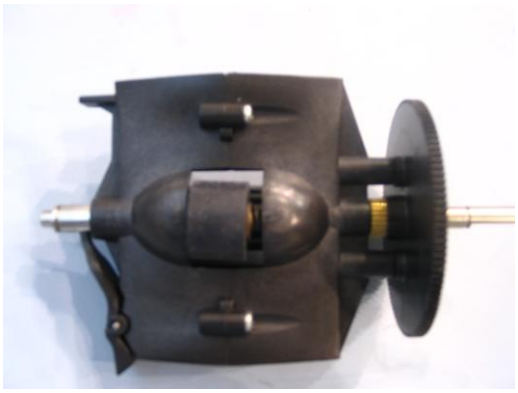
Replacing the Flipper Table Assembly (D900205)



Tools needed: 10 Torx screwdriver

Estimated Repair Time: 20 minutes

Preparation: Remove the Covers.

Important: This procedure can only be performed by authorized service personnel.

Step	Procedure
1	**Caution:** Turn OFF the Printer and unplug the power cord from the Printer.
2	Remove all the Covers.
3	Remove the pulleys and Gears. See Replacing the Flipper Module Gears.
4	Remove the Card Feed Motor. See Replacing the Card Feed Motor (D900524; contains E000062 and D900208).
5	Remove the Flipper Table Sensor. See Replacing the Flipper Sensor bundle (D900249)
6	Remove both E-Clip s for both sides of the Shaft.
7	a. Remove the brass bushing form the Motor side. b. Leave the brass bushing on the Sensor side in place.
8	Replace it with New Flipper Table assembly.
9	Reverse the instructions to re-assemble.

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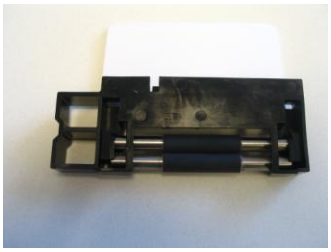
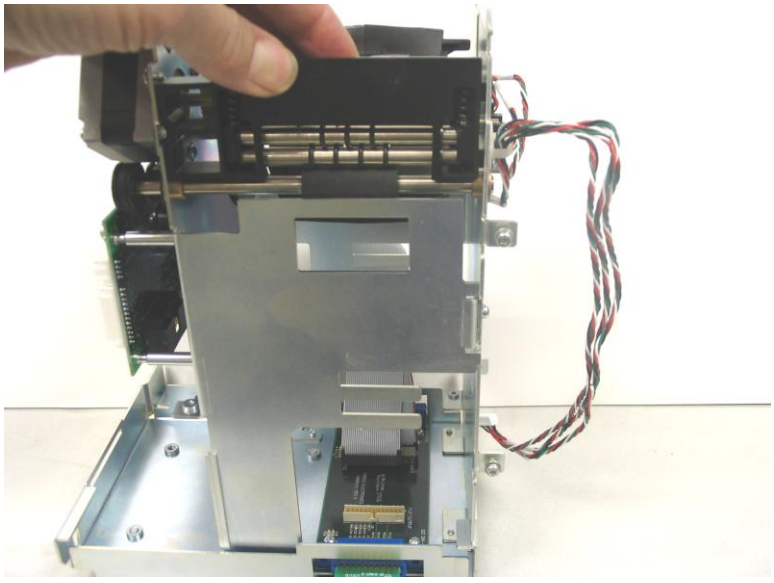
Replacing the Output Roller Assembly (D910404)

	**Tools needed:** **Estimated Repair Time:** 15 minutes **Preparation:** Remove the Covers. **Important:** This procedure can only be performed by authorized service personnel.

Step	Procedure
1	**Caution:** Turn OFF the Printer and unplug the power cord from the Printer.
2	Remove all the Covers.
4	Unwind the Flipper Sensor Bundle Cable from the top of the Output Roller Assembly.
5	The Output Roller Assembly (D910404) clips into the two (2) slots on either side of the Frame. • Gently pull the Assembly from the Sensor side Frame just enough for the Assembly to be pulled out from its slots.



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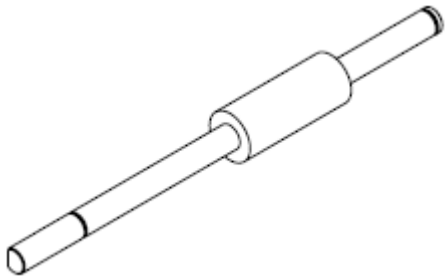
Replacing the Flipper Output Roller (D900123)



Tools needed:

Estimated Repair Time: 15 minutes

Preparation: Remove the Covers.

Important: This procedure can only be performed by authorized service personnel.

Step	Procedure
1	**Caution:** Turn OFF the Printer and unplug the power cord from the Printer.
2	Remove all the Covers.
3	a. Remove the Output Roller Assembly (D910404). (**Note:** The Output Roller Assembly (D910404) clips into the two (2) slots on either side of the Frame.) b. Gently pull from the Sensor Side Frame just enough for the assembly to be pulled out from its slots.
4	a. Remove the Lower Idler Pulley (D900241), the Belt (220082) and the Main Pulley (D850190). b. Remove the Pulley and Gear. See Replacing the Flipper Module Gears.
5	Remove the E-Clip from the Sensor side of the Flipper Table Shaft and the bushing (220082)
6	Remove the E-Clip from the Motor side and the bushing.
7	Remove the Output Roller Assembly (D910404) from the Motor side.
8	Reverse the instructions to re-assemble.

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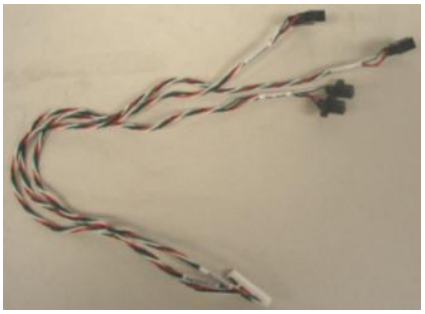
Replacing the Flipper Sensor bundle (D900249)



Tools needed: 10 Torx screwdriver

Estimated Repair Time: 15 minutes

Preparation: Remove the Covers.

This Sensor bundle connects to J3 on the Flipper Main Board. The Sensor bundle contains three (3) optical Sensors used for the Card Input Sensor, Flipper Home Sensor and Table Sensor. All three Sensors must be replaced at the same time if one Sensor is damaged.

Important: This procedure can only be performed by authorized service personnel.

Step	Procedure
1	**Caution:** Turn OFF the Printer and unplug the power cord from the Printer.
2	Remove all the Covers.
3	Disconnect the wire bundle from the J3 connection.
4	a. Unwind the wire bundle to reach the Sensors. b. Unclip the wires from the holder Mounts.
5	Remove the two (2) screws that hold each Sensor to the Frame.
6	Observe where each Sensor goes. (**Note:** Each wire is labeled for placement.)
7	Replace the Sensor bundle.
8	Reverse the instructions to re-assemble.

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Replacing the Flipper Motor (D900523; contains E000062 and 820524)

Tools needed: 10 Torx screwdriver

Estimated Repair Time: 15 minutes

Preparation: Remove the Covers.

.

Important: This procedure can only be performed by authorized service personnel.

Step	Procedure
1	**Caution:** Turn OFF the Printer and unplug the power cord from the Printer.
2	Remove all the Covers.
3	Disconnect the cable (D900251) from the top of the Stepper Motor.
4	Remove three (3) screws from the Motor to the Frame.
5	Replace the Motor.
6	Connect the cable to Motor (top).
7	Reverse the instructions to re-assemble.

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Replacing the Card Feed Motor (D900524; contains E000062 and D900208)

Tools needed: 10 Torx screwdriver

Estimated Repair Time: 15 minutes

Preparation: Remove the Covers.

Important: This procedure can only be performed by authorized service personnel.

Step	Procedure
1	**Caution:** Turn OFF the Printer and unplug the power cord from the Printer.
2	Remove all the Covers.
3	Disconnect the cable (D900251) from the bottom of the Stepper Drive Motor.
4	Remove the Main Board.
5	Remove the two (2) screws that hold the Motor base to the Frame.
6	Replace the Motor Bracket.
7	Reconnect the wires at the Motor (bottom).
8	Reverse the instructions to re-assemble.

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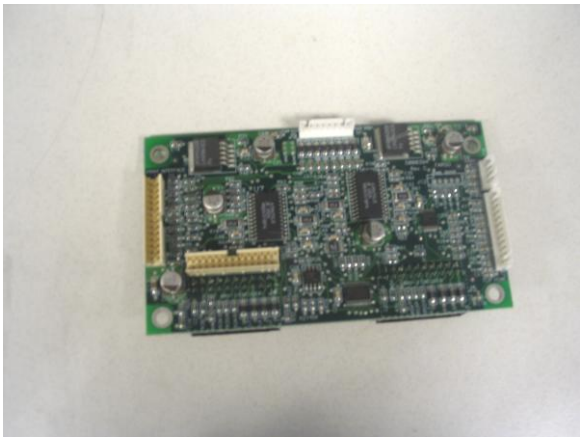
Replacing the Flipper Main Board (A000394)



Tools needed: 10 Torx screwdriver

Estimated Repair Time: 15 minutes

Preparation: Remove the Covers.

Important: This procedure can only be performed by authorized service personnel.

Step	Procedure
1	**Caution:** Turn OFF the Printer and unplug the power cord from the Printer.
2	Remove all the Covers.
3	Disconnect the cable (D900251) from the Board at J9.
4	Disconnect the cable (D900249) from the Board at J3.
5	Disconnect the Ribbon cable (D900214) from the Main Board at J1.
6	Disconnect the Ribbon cable (D900215) from the Main Board at J2.
7	Remove the Main Board by pulling from the four (4) corners out. (**Note:** No screws hold the Board. Four (4) pressure tabs hold the Board.) **Caution:** Be careful not to break the Board.
8	Replace the Main Board.
9	Reconnect the cables.
10	Reverse the instructions to re-assemble.

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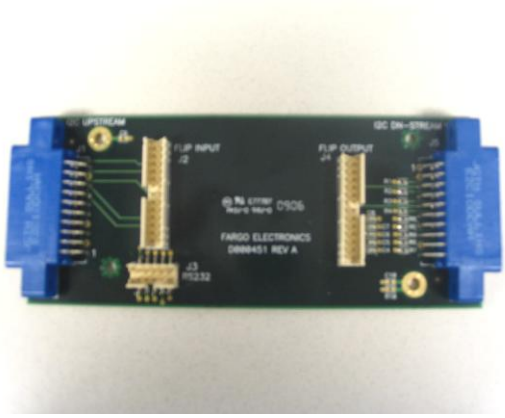
Replacing the Accessory Board (A000451)



Tools needed:

Estimated Repair Time: 15 minutes

Preparation: Remove the Covers.

Important: This procedure can only be performed by authorized service personnel.

Step	Procedure
1	**Caution:** Turn OFF the Printer and unplug the power cord from the Printer.
2	Remove all the Covers from the Flipper Module.
3	Disconnect the cables from the Main Board and from the Accessory Board.
4	Use a long Torx screwdriver to remove the four (4) screws that attach the Board to the base plate. Work from the top of the Flipper Table.
5	Replace it with the new Accessory Board (A000451)
6	Reconnect the cables.
7	Reverse the instructions to re-assemble.

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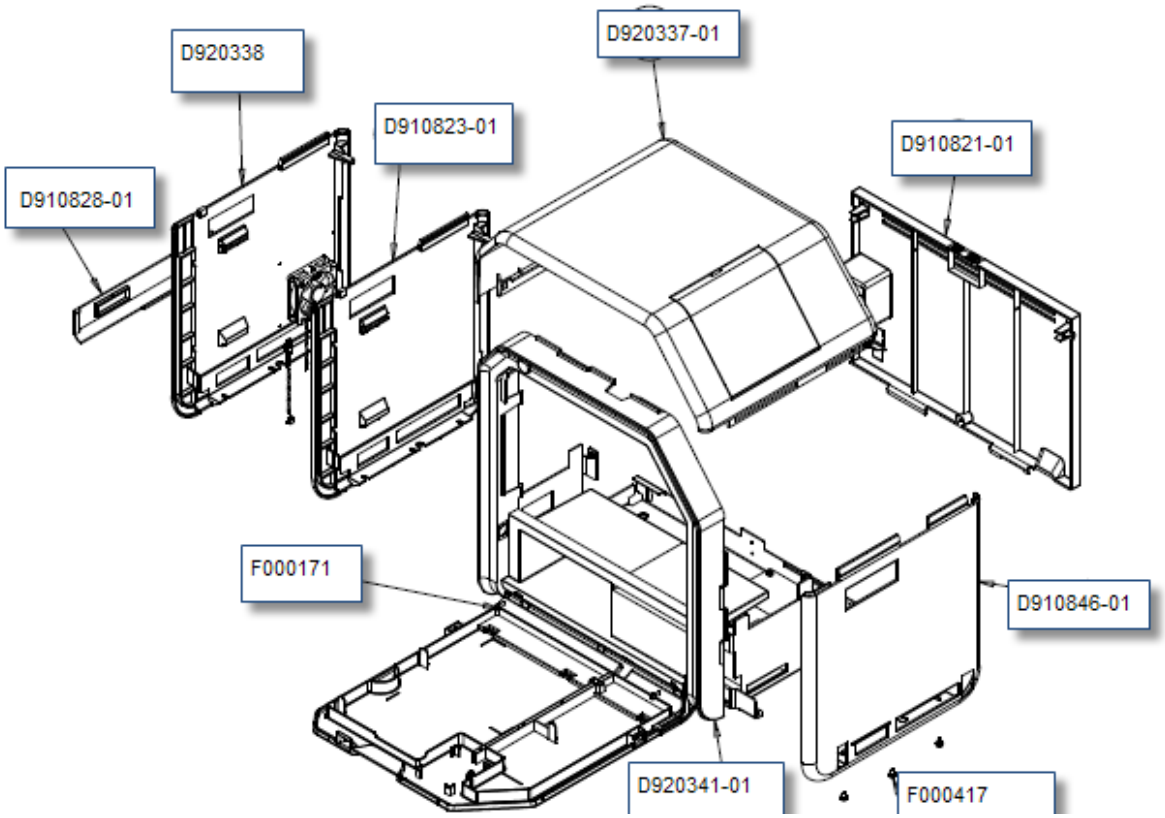
HDP5000 Lamination Module Replacement Procedures

Important: These procedures can only be performed by authorized service personnel.

Use this procedure for the replacements of all parts. All Covers must be removed to access the parts within the lamination module. All media must be removed for these procedures.



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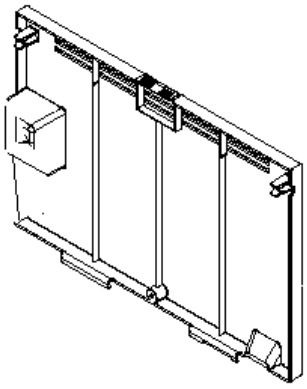
Lamination Module Cover Removal Procedures

Replacing the Back Access Assembly (D910821-01)

	**Tools needed:** **Estimated Repair Time:** 5 minutes **Important:** This procedure can only be performed by authorized service personnel.

Step	Procedure
1	**Caution:** Turn OFF the Printer and unplug the power cord from the Printer.
2	a. Remove 2 (one) screw from the bottom of the Rear Cover. b. Using a flat screwdriver and from the top slot, gently pry the access Cover out. c. Fold it down to open. d. Release the tab from the slot on the bottom Frame.
3	Reverse the instructions to re-assemble. • Insert the bottom tabs first.

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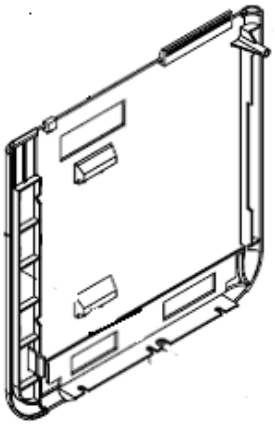
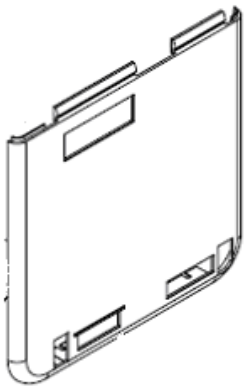
Replacing the Output Side Cover (D910823-01) and Input Side Covers (D910846-01)

 Output	 Input	**Tools needed:** 10 Torx screwdriver **Estimated Repair Time:** 5 minutes **Important:** This procedure can only be performed by authorized service personnel.

Step	Procedure
1	**Caution:** Turn OFF the Printer and unplug the power cord from the Printer.
2	Remove the Back Cover first.
3	Turn the Lamination Module over and loosen the three (3) torx screws, located on the Baseplate of each Side Cover.
4	Lift it up from the bottom to release the top tabs on both sides. • The top Cover can be removed along with the side Covers all in one piece.
5	Reverse the instructions to re-assemble.

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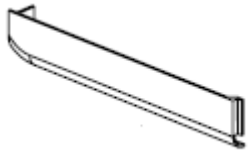
Replacing the Output Side Upgrade Cover (D910828)

	**Tools needed:** **Estimated Repair Time:** 5 minutes **Important:** This procedure can only be performed by authorized service personnel.

Step	Procedure
1	**Caution:** Power off the printer by unplugging the power cord from the Printer. Remove the Ribbon, film and card cartridges.
2	Gently pry the Cover (D910828) from the center top edge while simultaneously pulling at the center of the bottom edge.
3	Reverse the instructions to re-assemble. Leave off for Upgraded Printers to access the port.

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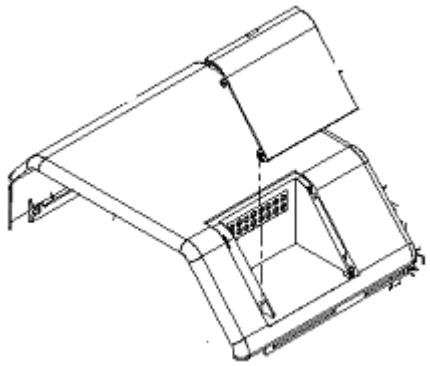
Replacing the Top Cover (D920337)



Tools needed:

Estimated Repair Time: 5 minutes

Important: This procedure can only be performed by authorized service personnel.

Step	Procedure
1	**Caution:** Turn OFF the Printer and unplug the power cord from the Printer.
2	Remove the Back Cover first, then the two (2) Side Covers. The top Cover can be removed along with the side Covers all in one piece.
3	Lift off the Top Cover. Leave the Reject door attached.
4	Reverse the instructions to re-assemble.

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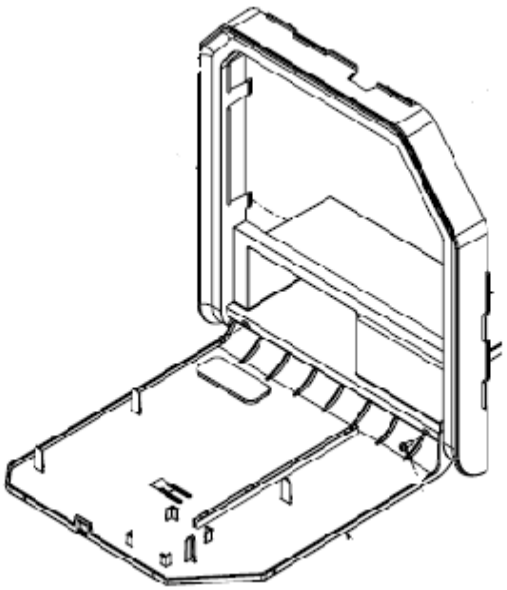
Replacing the Front Bezel Door (D920341) and Belt (F000427)



Tools needed:

Estimated Repair Time: 15 minutes

Important: This procedure can only be performed by authorized service personnel.

Step	Procedure
1	**Caution:** Turn OFF the Printer and unplug the power cord from the Printer.
2	Remove the Back Cover first, then remove the two (2) Side Covers.
3	Lift off the Top Cover.
4	Unplug the Front RFID cable from the board location
5	a. Open the Front Door and remove the two (2) screws (F000171) from the bottom of the front panel. b. Unsnap the front Bezel door from the frame. See Display A
6	See Displays B and C to show the belt configuration (F000427).
7	Reverse the instructions to re-assemble.

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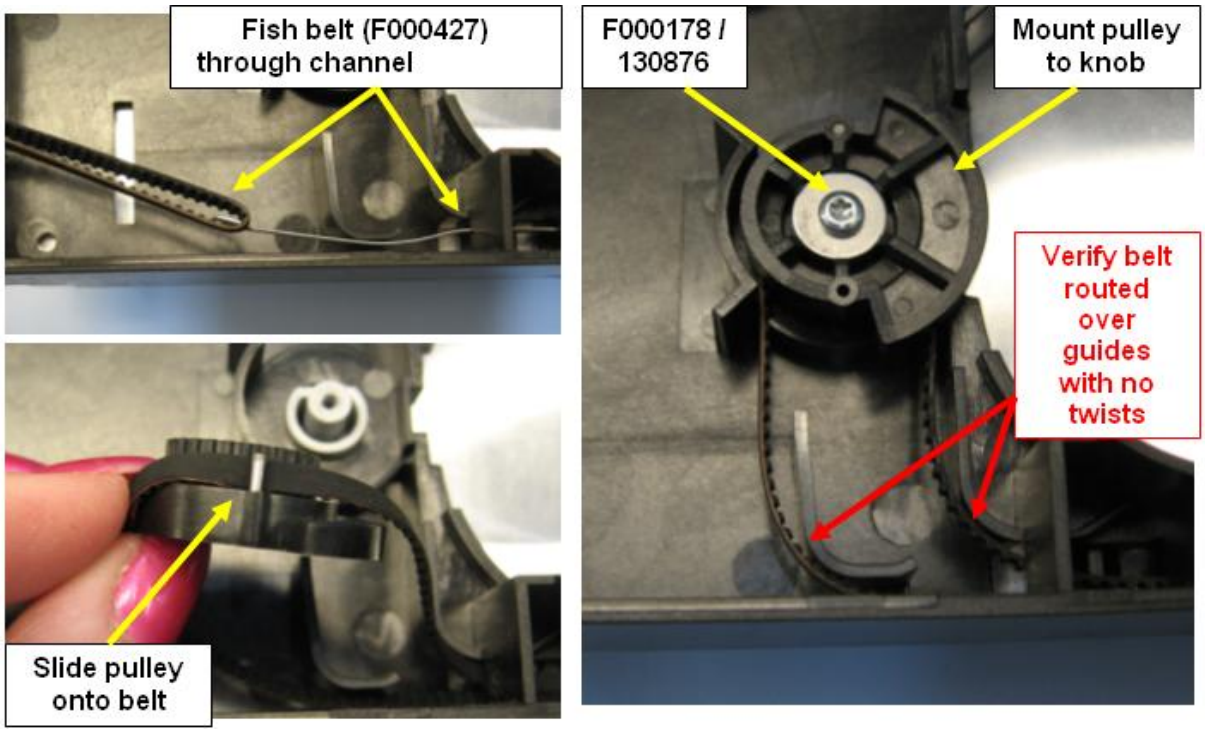
Replacing the Front Bezel Door (D920341) and Belt (F000427) (cont.)

Display A: See Step 5 in this procedure.

Display C: See Step 6 in this procedure.


Fish belt (F000427) through channel
Slide pulley onto belt
F000178 / 130876
Mount pulley to knob
Verify belt routed over guides with no twists

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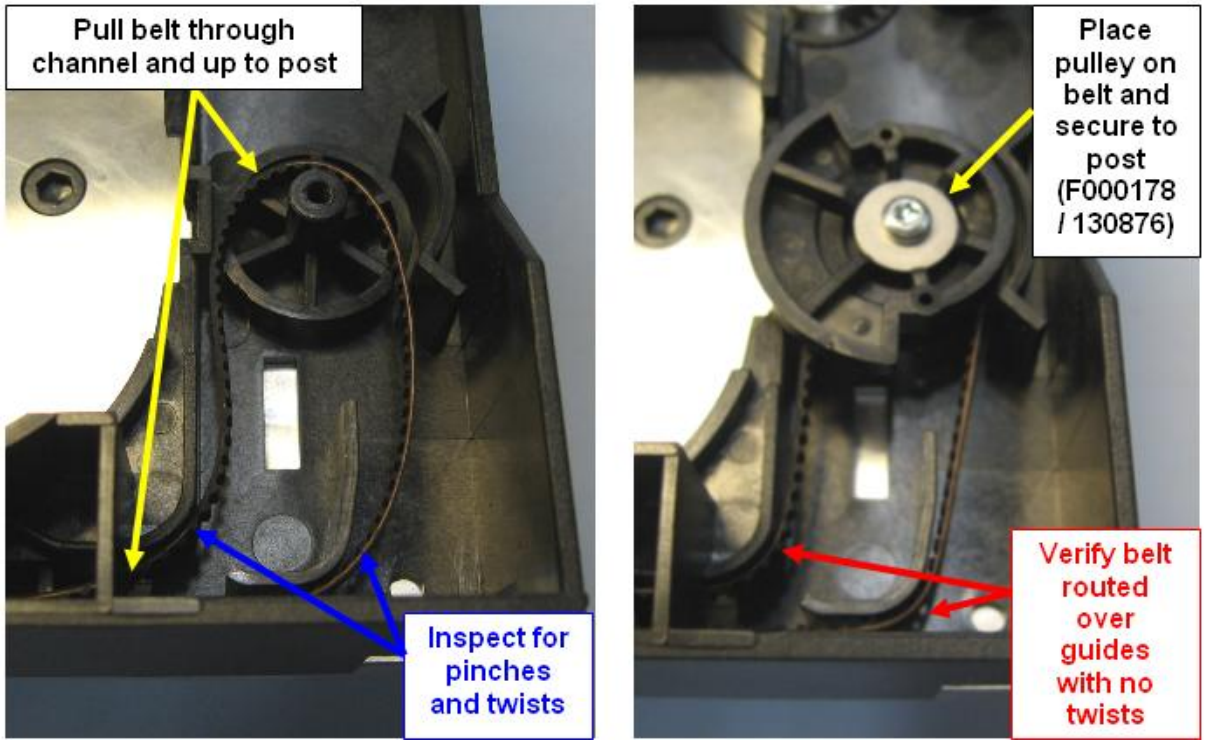
Replacing the Front Bezel Door (D920341) and Belt (F000427) (cont.)

Display C: See Step 6 in this procedure.


Pull belt through channel and up to post
Inspect for pinches and twists
Place pulley on belt and secure to post (F000178 / 130876)
Verify belt routed over guides with no twists

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Replacing the Card Input Sensor (A000462)

Tools needed: Needle Nose Pliers

Estimated Repair Time: 25 minutes

Preparation: Remove the Covers.

Important: This procedure can only be performed by authorized service personnel.

A000462 is located on Centerplate Input D920026

Step	Procedure
1	**Caution:** Turn OFF the Printer and unplug the power cord from the Printer.
2	Remove all the Covers. See Lamination Module Cover Removal Procedures
3	Disconnect the Card Input Sensor Cable (D920149) from the Main Board at J5.
4	Remove the metal Roller (D920137) by snapping it up and out from the side Frame peg hole on the rear side.
5	Use a small flathead screwdriver to unsnap the Sensor from the Frame. See the Display on the next page.
6	a. Replace the Sensor and reconnect the wire at J5. b. Replace the cable as needed.
7	Reverse the instructions to re-assemble.

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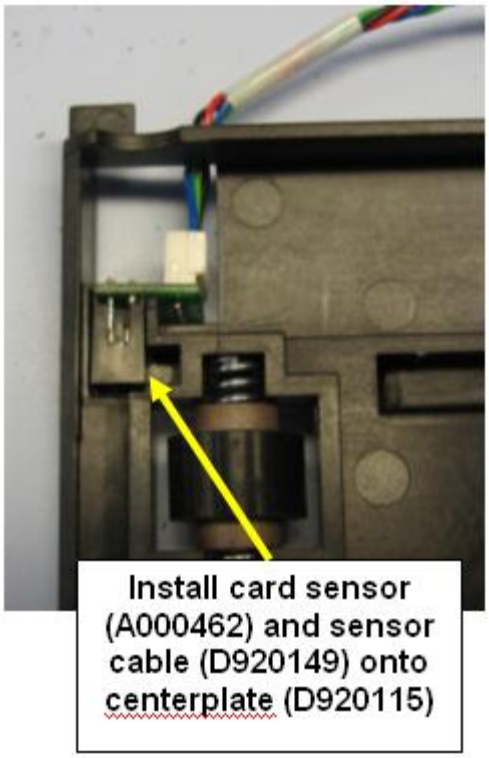
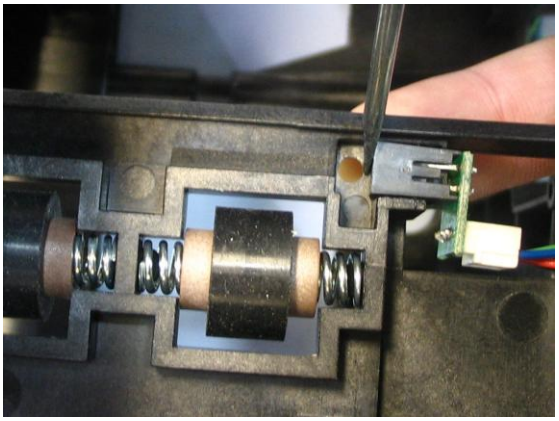
Replacing the Card Input Sensor (A000462) (continued)

Display: See Step 5 in this procedure.





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Replacing the Film Mark Sensor (D920155) Upper and Lower

	Tools needed: Needle Nose Pliers **Estimated Repair Time:** 25 minutes **Preparation:** Remove the Covers. **Important:** This procedure can only be performed by authorized service personnel. D920155 is located on the Center Plate Exit D920027

Step	Procedure
1	**Caution:** Turn OFF the Printer and unplug the power cord from the Printer.
2	Remove all the Covers. See Lamination Module Cover Removal Procedures .
3	Disconnect the cable (D920155) from the Main Board at location J26 for the lower Sensor and J27 for the upper Sensor.
4	Remove the Upper and Lower Take-Up Motors for clearance to access the Sensors. See Replacing the Take-up Motor (D920118).
5	For the Upper Sensor remove the metal Roller (D920137) by snapping it up and out from the front side Frame peg hole. (**Note:** Use needle nose pliers to grab the Sensor/cable and pull it out.) See Display A within this procedure.
6	To remove Lower Sensor (D920155), repeat Step 1 to 4. (**Note:** The second drive roller, gear, pulley needs to be removed first for easy access.) a. Remove the metal roller (D920137) by sliding out. b. Loosen the Sensor cable, grab the Sensor/cable and pull it out.

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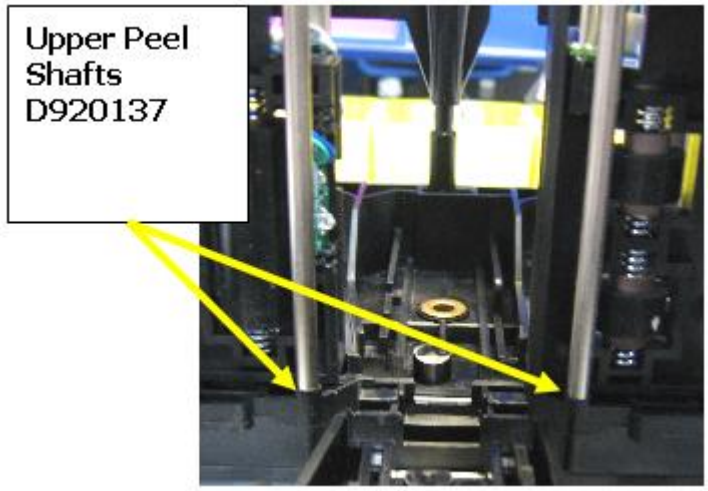
Replacing the Film Sensor (D920155) Upper and Lower (continued)

Step	Procedure
7	Replace Sensors. (**Note:** The Sensor Board slides into the Frame holding tabs. Ensure that the wires feed over the Roller.) a. See Displays B, C, and D within this procedure for wire routing.
8	Reconnect the wire at the Main Board.
9	Reverse the instructions to re-assemble.

Display A: See Step 5 within this procedure.



Display B: See Step 7 within this procedure.

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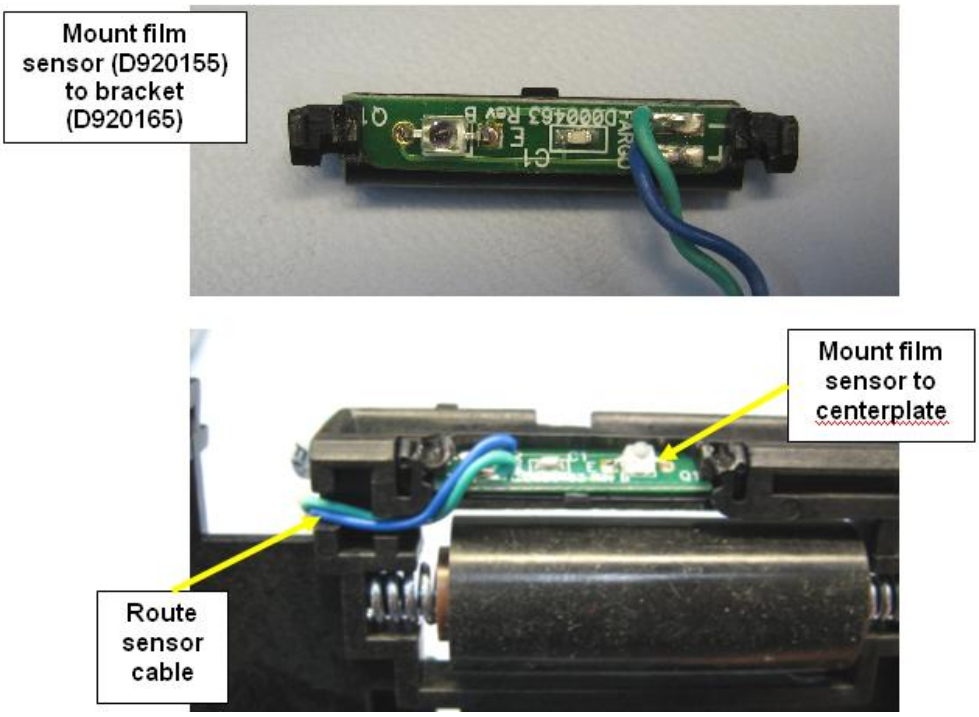
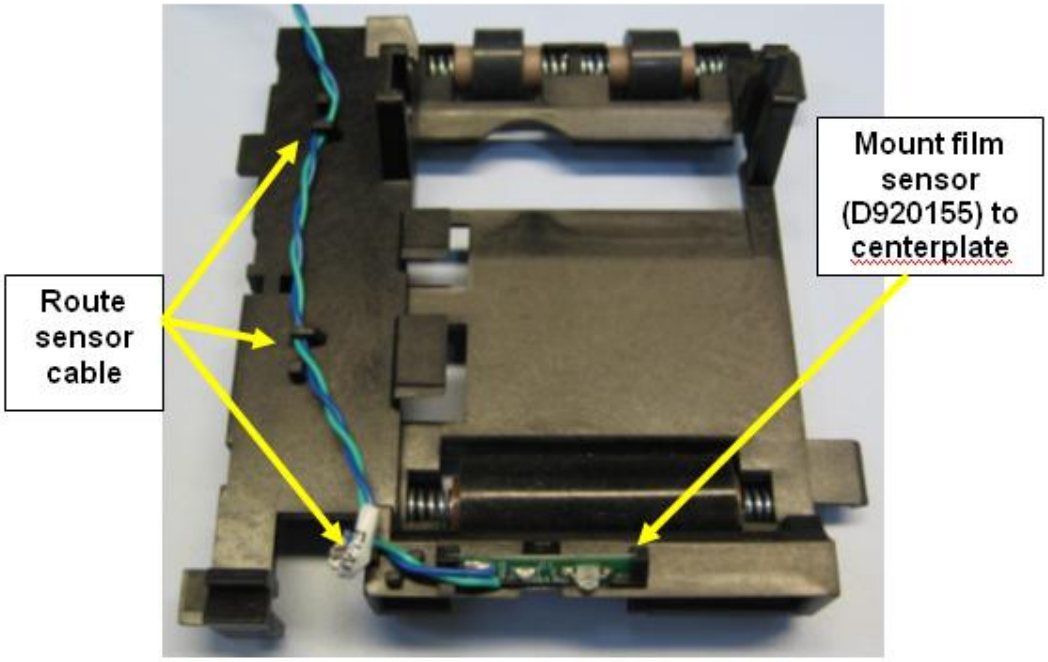


Display C: See Step 7 within this procedure.



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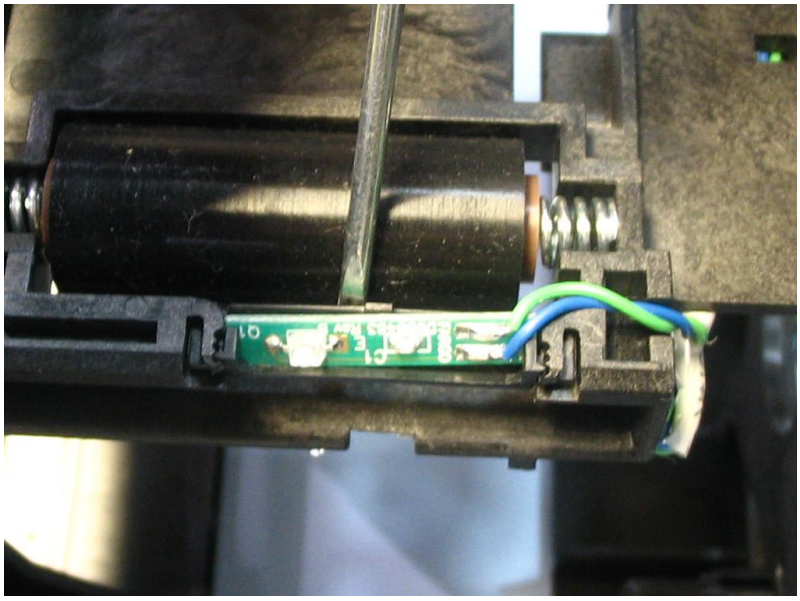
Replacing the Film Sensor (D920155) Upper and Lower (continued)

Display D (Top Sensor removal): Grip the blue/green wires with needle nose pliers or small flat screwdriver. See Step 7 within this procedure.



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Replacing the Lamination Module Main Board (A000435)

Tools needed: Torx screwdriver

Estimated Repair Time: 30 minutes

Preparation: Remove the Covers.

Important: This procedure can only be performed by authorized service personnel.

A000435 is located on the baseplate.

Step	Procedure
1	**Caution:** Turn OFF the Printer and unplug the power cord from the Printer.
2	Remove all the Covers. See Lamination Module Cover Removal Procedures (**Note:** You do not need to remove the printer body to access the Main Board.)
3	a. Disconnect the cables from the Main Board. b. Ensure all cables are labeled for reconnecting. Refer to the Cable/Board placement at the end of this section.
4	Remove the three (3) torx screws (F000169) that hold to Board to the base. • See Display A within this procedure.
5	Replace it with the new Main Board.
6	Reconnect the cables. Refer to the Cable/Board placement at the end of this section.
7	Reverse the instructions to re-assemble.

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Replacing the Lamination Module Main Board (A000435)

Display A: See Step 4 in this procedure.

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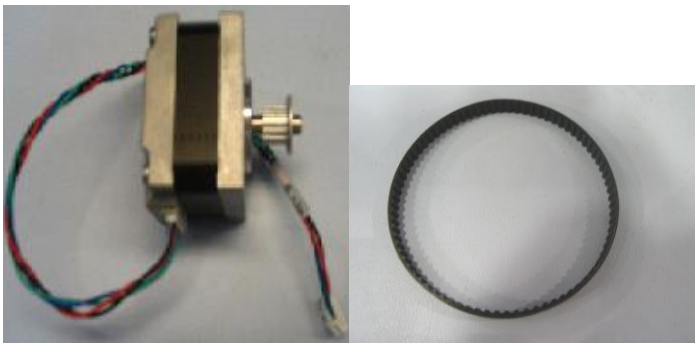
Replacing the Stepper Motor Assembly (D920030) and Belt (F000428)



Tools needed: 10 Torx screwdriver

Estimated Repair Time: 25 minutes

Preparation: Remove the Covers.
Important: This procedure can only be performed by authorized service personnel.

Step	Procedure
1	**Caution:** Turn OFF the Printer and unplug the power cord from the Printer.
2	Remove all the Covers. See Lamination Module Cover Removal Procedures .
3	Disconnect the Stepper Motor cable (D900032).
4	Remove the four (4) Torx screws (F000169) that attach the Motor to the Frame.
5	Remove the Belt (F000428) from the Motor. • Replace as needed.
6	The self adjusting Spring (F000332) will fall out. (**Note:** This will be replaced when the new Motor is installed.)
7	Install the new Motor. Loosely install the four (4) screws. Work the Belt (F000428) back onto the Motor Shaft.
8	a. Insert the self adjusting Spring (F000332) into the hole (provided from the front). b. Tighten the four (4) screws (F000169). Allow the self-adjusting Spring to hold the Motor in place. See Display A within this procedure.
9	Reverse the instructions to re-assemble.

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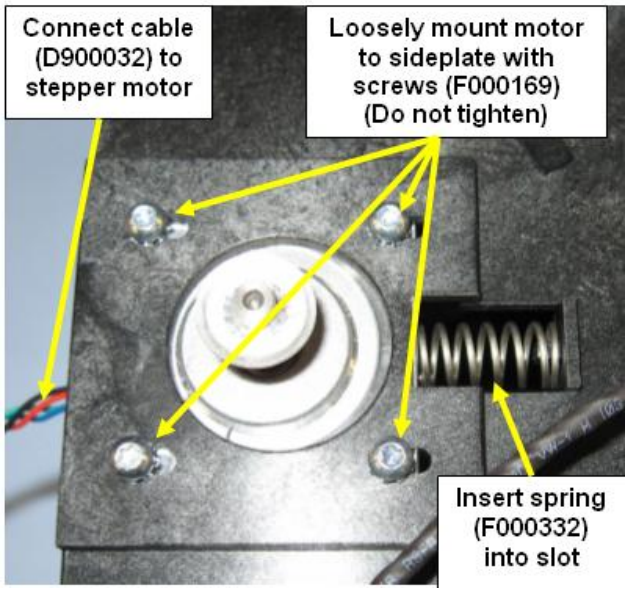
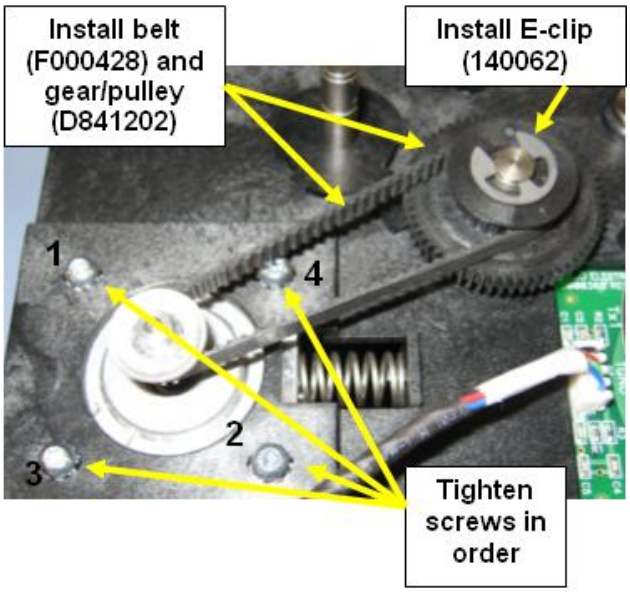
Replacing the Stepper Motor Assembly (D920030) and Belt (F000428) (continued)

Display A-1: See Step 8 in this procedure.


Connect cable (D900032) to stepper motor
Loosely mount motor to sideplate with screws (F000169) (Do not tighten)
Insert spring (F000332) into slot

Display A-2: See Step 8 in this procedure.



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Replacing the Upper and Lower Take-up Motor (D920118)

Tools needed:

Estimated Repair Time: 25 minutes

Preparation: Remove the Covers.

Important: This procedure can only be performed by authorized service personnel.

The same part number is used for both the Single and Dual Lamination Modules. The Single Laminator uses one (1) Motor. The Dual Laminator uses two (2) Motors. Both Motors use cable D920153.

Step	Procedure
1	**Caution:** Turn OFF the Printer and unplug the power cord from the Printer.
2	Remove all the Covers. See Lamination Module Cover Removal Procedures
3	Disconnect the cable (D920153) from the top of the Motor.
4	Hold the Motor in one hand and the Shaft in the other. Push it in and turn the Motor to release it from the Frame. • The (lower) Motor for the SINGLE Lamination is removed by turning it clock-wise to release it and counter clock-wise to replace it. Refer to Display A in this procedure. • The (upper) Motor for the DUAL Lamination Module is removed by turning it counter clock-wise to release and clock-wise to replace it. Refer to Display B in this procedure.
5	• Display C shows the cutout area to place the Motor (into) before turning it to lock it in place. See the display page in this procedure. • Display D shows wire routing configuration. See the display page in this procedure. **Caution:** Do not pinch the wires.

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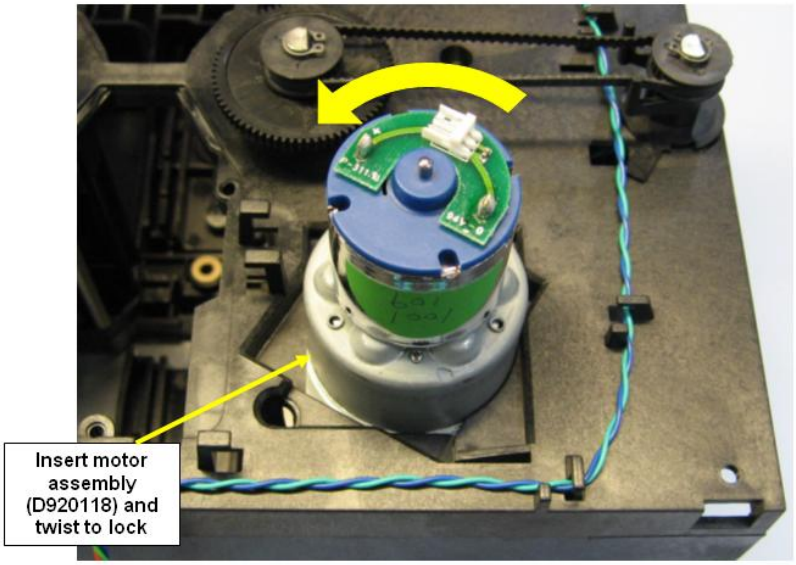
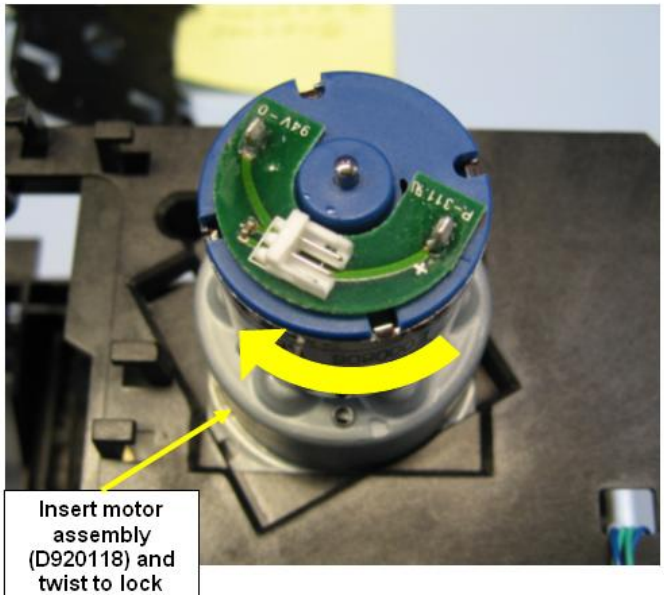
Replacing the Take-up Motor (D920118) (continued)

Display A (Lower Motor): See Step 4 in this procedure.



Display B (Upper Motor): See Step 4 in this procedure.



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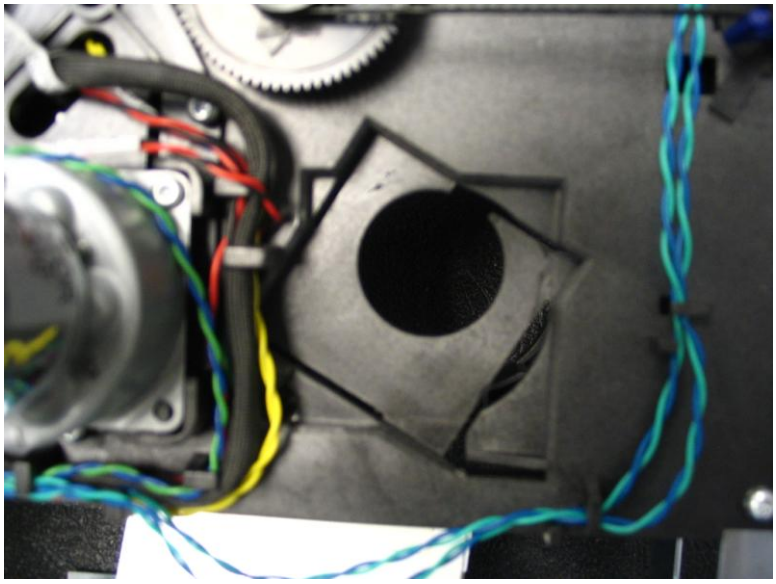
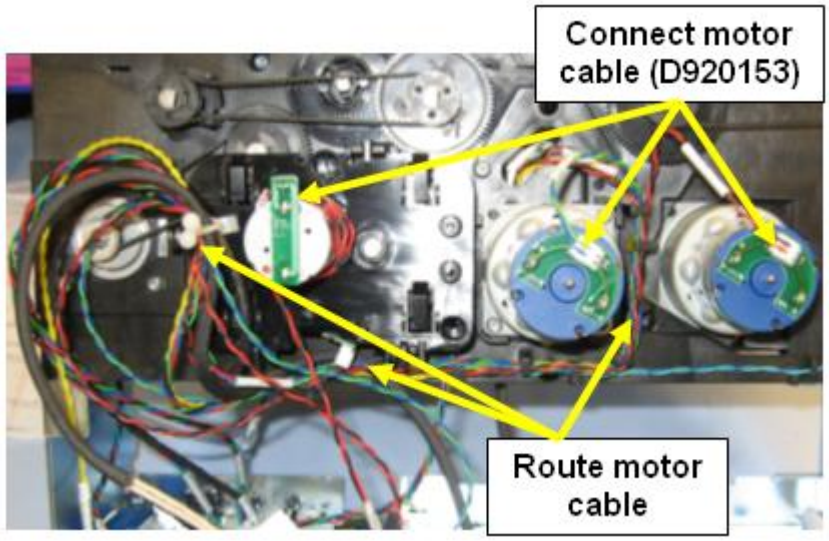
Replacing the Take-up Motor (D920118) (continued)

Display C: See Step 5 in this procedure.



Display D: See Step 5 in this procedure.



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Replacing the RFID Board for the Rewind Motors (A000365-01); Printer Mount

Printer Mount

Tools needed: Torx screwdriver

Estimated Repair Time: 30 minutes

Preparation: Remove the Covers

Important: This procedure can only be performed by authorized service personnel.

The same part number is used for both the Single and Dual Lamination Modules.

The Single Laminator uses the top RFID Board that is mounted to the printer body.

The Dual Laminator uses the bottom RFID Board and is located within the Front Cover.

Step	Procedure
1	**Caution:** Turn OFF the Printer and unplug the power cord from the Printer.
	Remove the Covers. See Lamination Module Cover Removal Procedures
2	Remove the Ribbon Rewind Motor, the Gear (D920170) and Encoder Wheel (810492) See Replacing the Rewind Motor (D900406).
3	Disconnect the cable from the RFID Board.
4	Remove the two (2) screws (F000177) from the RFID Board. (**Note:** Slide the Board out from the Frame.) See Display A in this procedure.
5	Replace it with the new RFID Board. (**Note:** This Board will slide into slots on the left side.)
6	Reconnect the cables. (**Note:** The top Board connects to J19. The bottom Board connects to J20.)
7	Replace the Ribbon Rewind Motor. Reverse the instructions to re-assemble. Refer to Display A below.

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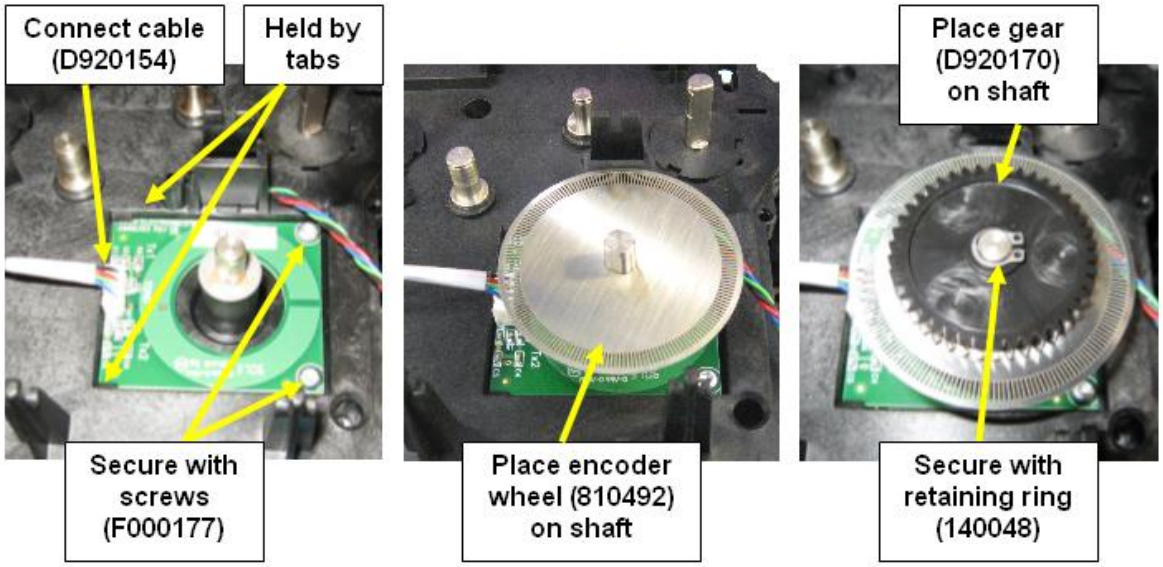
Replacing the RFID Board for the Rewind Motors (A000365-01)

Display A: See Step 4 in this procedure.


Connect cable (D920154)
Held by tabs
Secure with screws (F000177)
Place encoder wheel (810492) on shaft
Place gear (D920170) on shaft
Secure with retaining ring (140048)

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Replacing the RFID Board for the Rewind Motors (A000365-01); Front Door Mount

Front Door Mount

Tools needed: Torx screwdriver

Estimated Repair Time: 20 minutes

Preparation: Remove the Covers. Remove the Rewind Motor.

- The same part number is used for both the Single and Dual Lamination Modules.
- The Single Laminator uses the top RFID Board that is mounted to the printer body.
- The Dual Laminator uses the bottom RFID Board and is located within the Front Cover.

Important: This procedure can only be performed by authorized service personnel.

Step	Procedure
1	**Caution:** Turn OFF the Printer and unplug the power cord from the Printer.
2	Remove the Covers. See Lamination Module Cover Removal Procedures
3	Remove the Rewind Motor. See Replacing the Rewind Motor (D900406) Gear (D920170)
4	Fish the upper RFID cable out through the hole in the front bezel. See Display A.
5	Plug the RFID cable into an RFID antenna board (A000365) then insert the board into an RFID cover and snap it into place. See Display B.
6	Snap the RFID cover onto the mounts on the front door and press the RFID cable into the cable channel. See Display C.

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Replacing the RFID Board for the Rewind Motors (A000365-01) (continued)

Display A: See Step 2 in this procedure.

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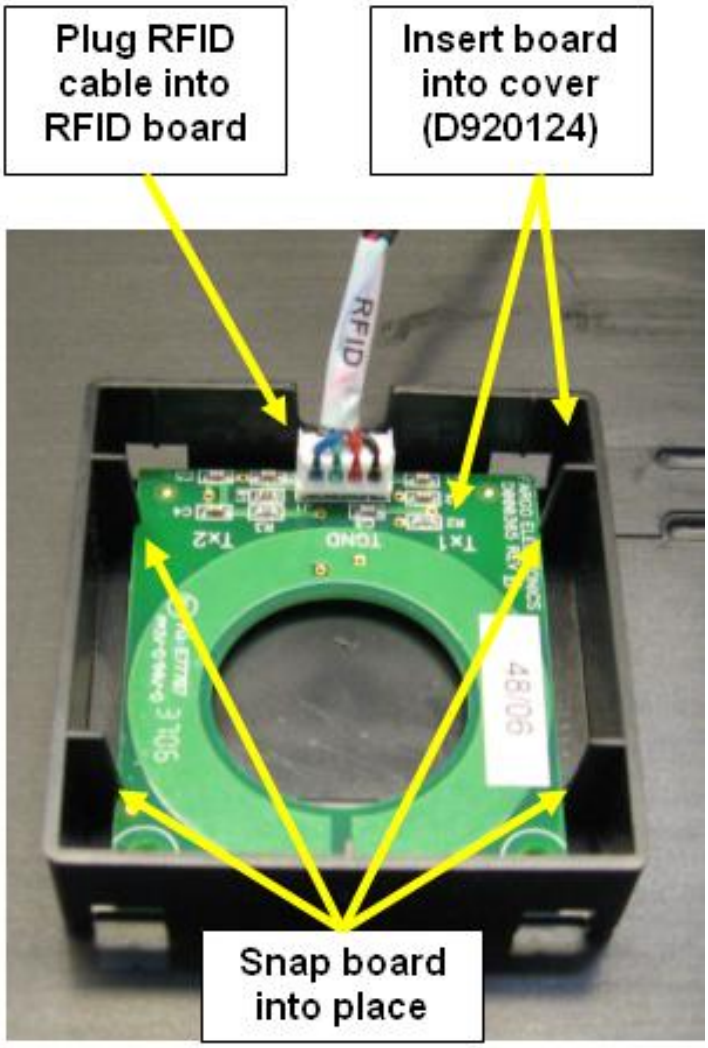
Replacing the RFID Board for the Rewind Motors (A000365-01) (continued)

Display B: See Step 3 in this procedure.



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Replacing the RFID Board for the Rewind Motors (A000365-01) (continued)

Display B: See Step 4 in this procedure.

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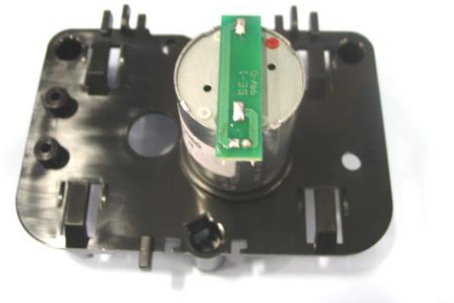
Replacing the Rewind Motor (D900406) Gear (D920170)



Tools needed: Small flathead screwdriver; a hook tool for O-Ring.

Estimated Repair Time: 30 minutes

Preparation: Remove the Covers

Important: This procedure can only be performed by authorized service personnel.

The same Rewind Motor is used for both Single and Dual Lamination Modules. The Single Laminator uses one (1) Rewind Motor. The Dual Laminator uses two (2) Rewind Motors.

Step	Procedure
1	**Caution:** Turn OFF the Printer and unplug the power cord from the Printer.
2	Remove the Covers. See Lamination Module Cover Removal Procedures
3	Disconnect the cable (D920147) from the top of the Motor.
4	Disconnect the wire bundle from the holding clip. (**Note:** Observe how the wires are routed.)
5	Disconnect the Encoder Sensor cable (D920147) from the Encoder Sensor Board (A000126). (**Note:** This cable is located toward the bottom of the Rewind Mount.) Unsnap the Encoder Sensor (A000126) from the Rewind Motor Frame. (**Note:** This will make it easier for reassembly.) • See the display on the next page.
6	Unclip the Rewind Mount from the top. (**Note:** The top tab must be lifted slightly to release the Motor Frame.) Be careful NOT to bend the metal Encoder wheel. (**Note:** The Encoder Sensor must clear the Encoder Wheel when removing it.) • See the display on the next page.

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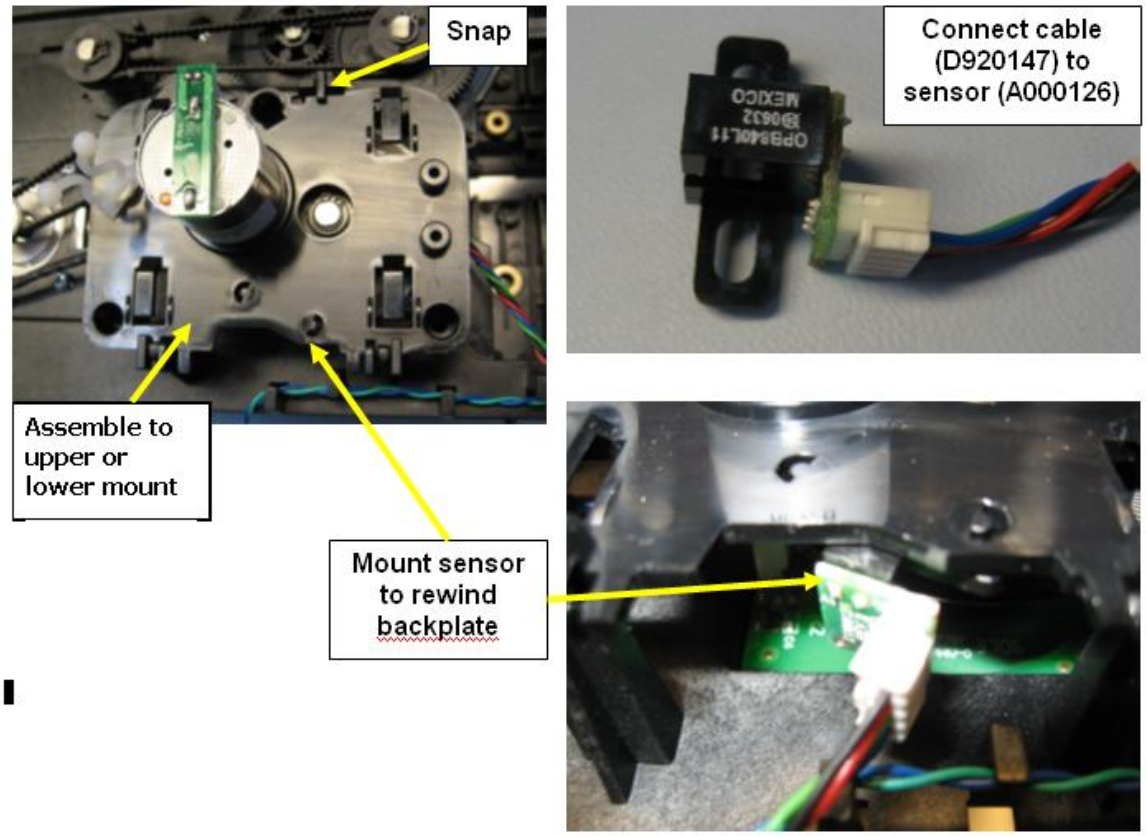
Step	Procedure
7	Reverse the instructions to re-assemble. a. Line up the bottom of the Rewind Motor on the tabs. b. Snap the top rewind Motor to the Frame into the tab provided. c. Replace the Sensor by (1) inserting the tab into one of the two (2) holes on the Sensor and by (2) snapping it onto the 2nd tab.



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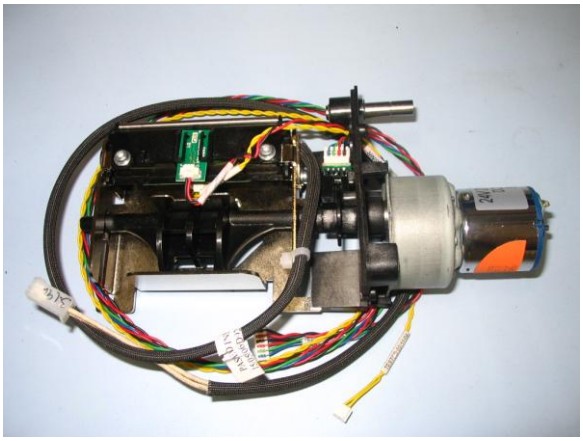
Replacing the Lamination Head (D920022) and (D920023)



Tools needed: Torx screwdriver-

Estimated Repair Time: 30 minutes

Preparation: Remove the Covers.

Important: This procedure can only be performed by authorized service personnel.

This part is sold as one assembly which includes the Film LED (A000454) Head Lift Sensor (E000186) Thermocouple RTD (A000449) and the wires.

- The Single Laminator uses one (1) Lamination Head (D920023).

The Dual Laminator uses two (2) Lamination Head (D920022 and D920023).

Step	Procedure
1	**Caution:** Turn OFF the Printer and unplug the power cord from the Printer.
2	Remove all Cover. See Lamination Module Cover Removal Procedures
3	Disconnect the cable from the Motor (top). See the display on the next page.
4	Disconnect the wires from the Main Board. See the display on the next page.
5	Reverse the instructions to re-assemble. (**Note:** The wires are routed in a specific way around the pegs, provided on the Frame.)

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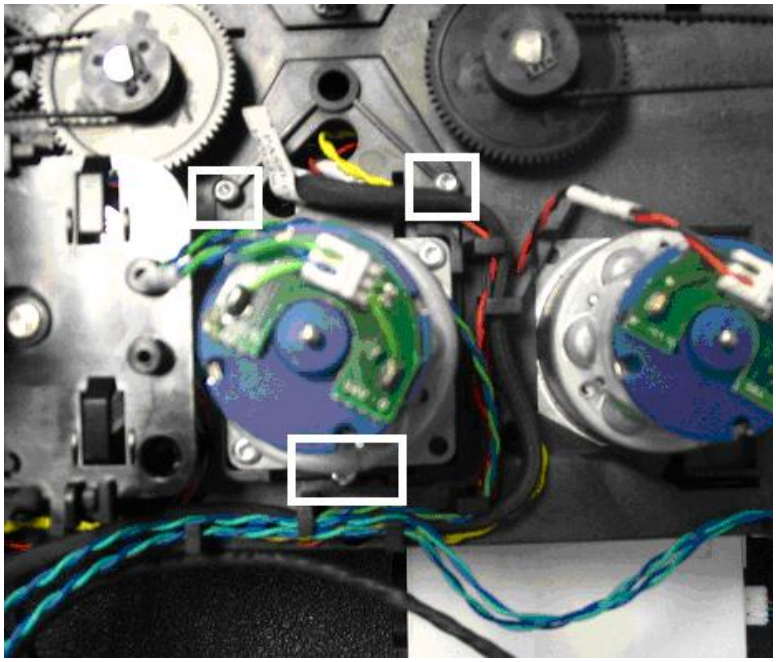
Replacing the Lamination Head (D920022) and (D920023)

Display A: See Steps 3 and 4 in this procedure.



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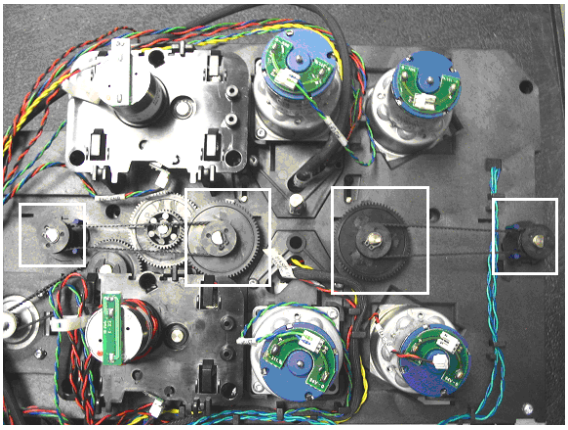
Replacing the Card Transport Drive Gears (810266), Main Pulleys (D850190) and Belt (220082)



Tools needed: 10 Torx screwdriver- Retaining Ring Removal Tool

Estimated Repair Time: 25 minutes

Preparation: Remove the Covers.

Important: This procedure can only be performed by authorized service personnel.

Step	Procedure
1	**Caution:** Turn OFF the Printer and unplug the power cord from the Printer.
	Remove the Covers. See Lamination Module Cover Removal Procedures
2	Remove retaining ring from the Shaft.
3	Remove the old Gear and replace it with the new Gear.
4	Replace the Belt as needed.
5	Note the position of the Belt guide. Orient the input roller shaft and the three feed roller shafts so the flat on the end of the shaft is facing right. (**Note:** Orientation of each shaft is critical so they must all be oriented identically.) • See Displays A and B on the next page.
6	Reverse the instructions to re-assemble. Refer to Display C below.

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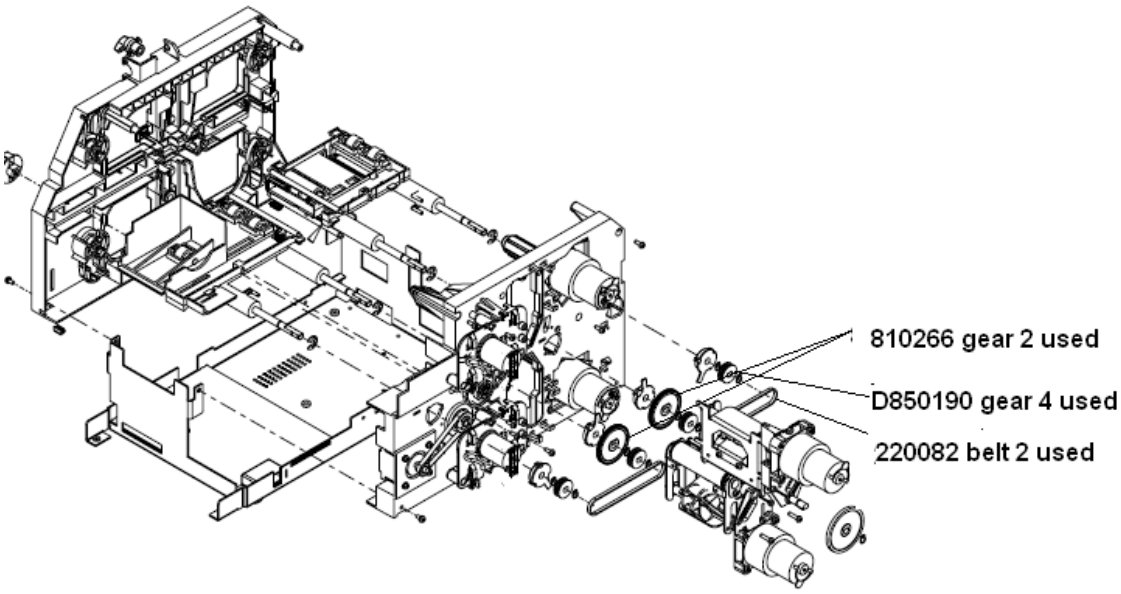
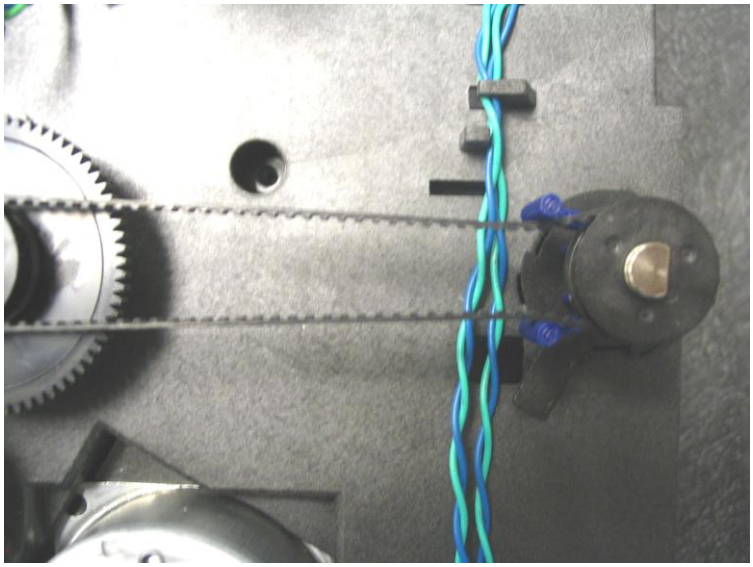
Replacing the Card Transport Drive Gears (810266), Main Pulleys (D850190) and Belt (220082)

Display A: See Step 5 in this procedure.



Display B: See Step 5 in this procedure.



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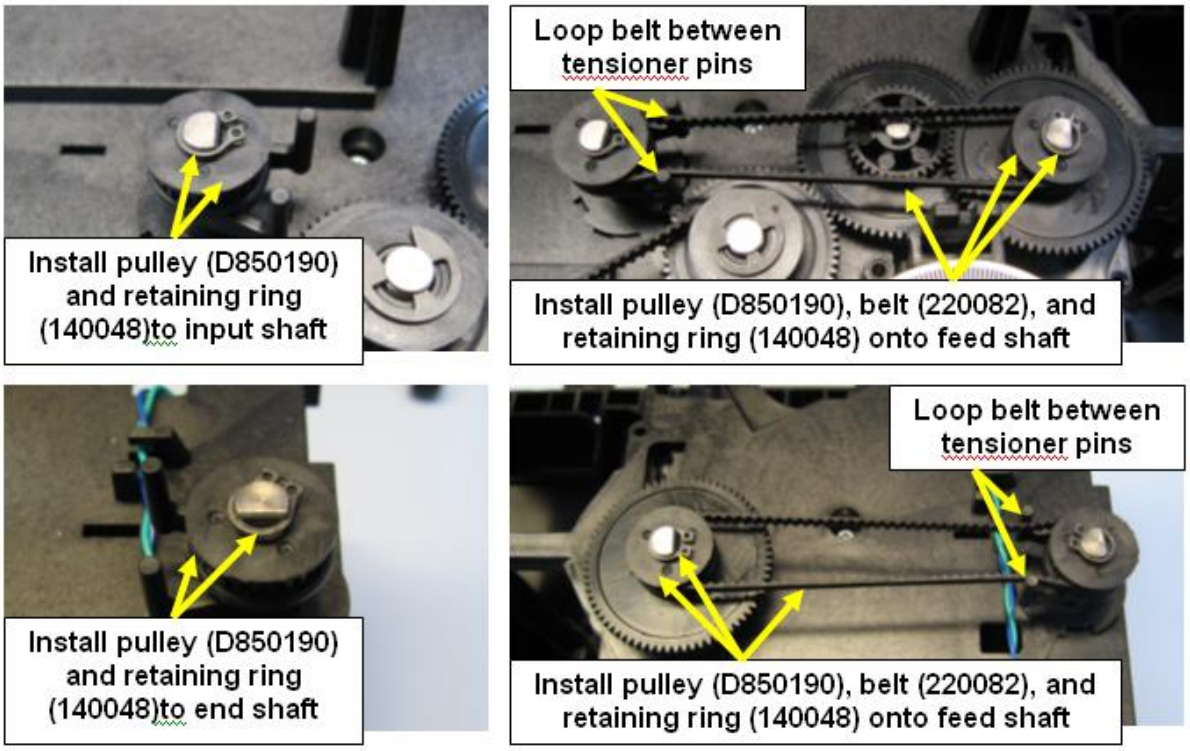
Replacing the Card Transport Drive Gears (810266), Main Pulleys (D850190) and Belt (220082)

Display C: See Step 6 in this procedure.


Install pulley (D850190) and retaining ring (140048)to input shaft
Loop belt between tensioner pins
Install pulley (D850190), belt (220082), and retaining ring (140048) onto feed shaft
Install pulley (D850190) and retaining ring (140048)to end shaft
Loop belt between tensioner pins
Install pulley (D850190), belt (220082), and retaining ring (140048) onto feed shaft

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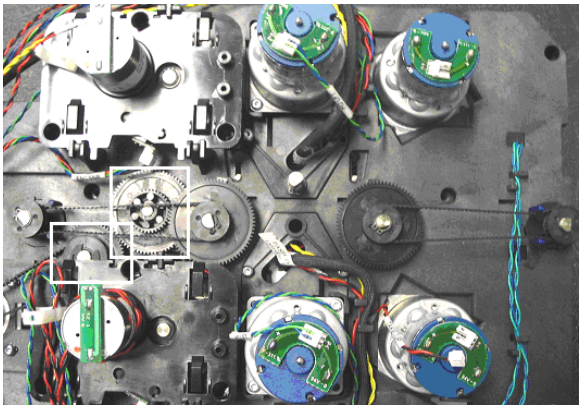
Replacing the Gear (D860280) and Pulley (D841202)



Tools needed: 10 Torx screwdriver and E-Clip Removal tool

Estimated Repair Time: 25 minutes

Preparation: Remove the Covers.

Remove the Gears and Belt.

Important: This procedure can only be performed by authorized service personnel.

Step	Procedure
1	**Caution:** Turn OFF the Printer and unplug the power cord from the Printer.
2	Remove the Covers. See Lamination Module Cover Removal Procedures
3	Remove Pulley (810266 and D850190) and Belt (220082) from the LEFT side above the Rewind Motor. See Replacing the Card Transport Drive Gears (810266), Main Pulleys (D850190) and Belt (220082). Release the Top tab on Rewind Motor for clearance. • Remove the retaining clip from the Gear (D841202). • See Displays A and B on the next page.
4	Loosen the four (4) screws on the Stepper Motor to release the Stepper Motor Belt (F000428). Remove the Belt.
5	a. Remove the E-Clip from the Gear and/or Pulley Shaft. b. Replace it with the new Gear and/or Pulley. Note the position of the Gear placement.
6	Reverse the instructions to re-assemble. See Replacing the Stepper Motor Assembly D920030 and Belt F000428 for the Stepper Motor adjustment.

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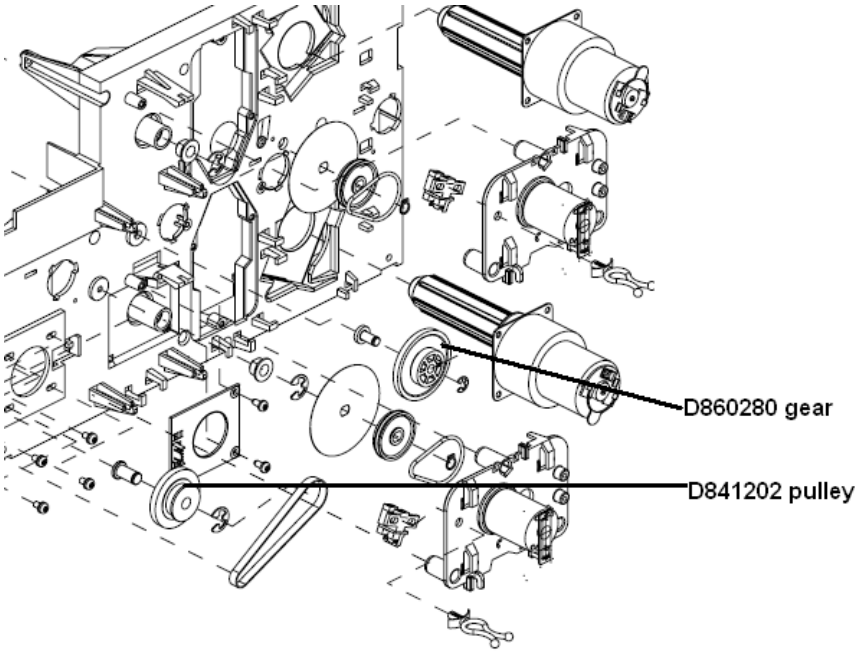
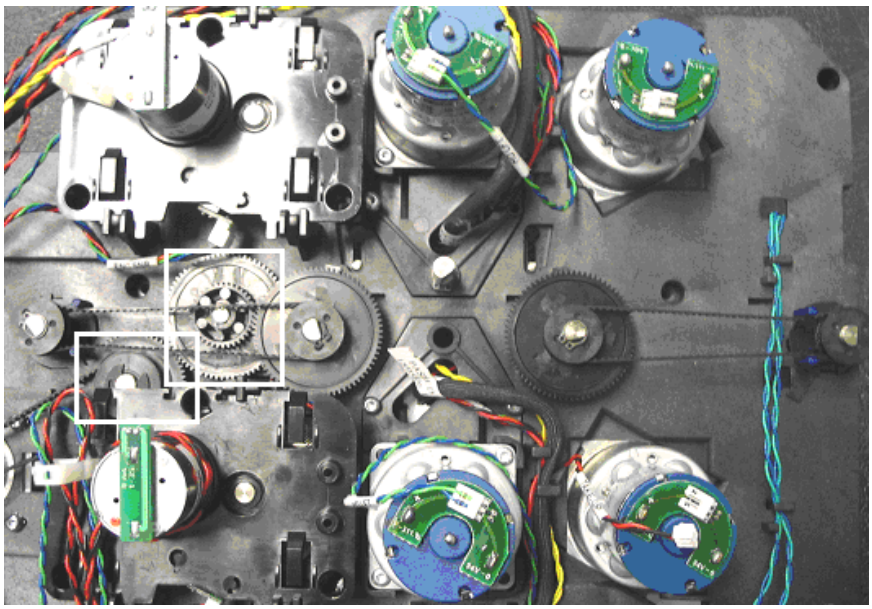
Replacing the Gear (D860280) and Pulley (D841202)

Display A: See Step 3 in this procedure.



Display B: See Step 3 in this procedure.



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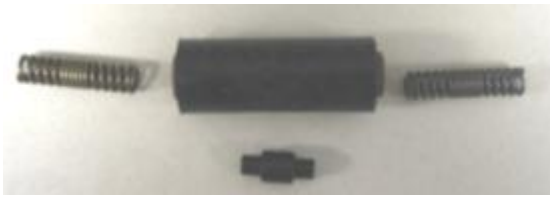
Replacing the Upper Card Path Rollers (D920013 and D920018)

D920013 (shown above)



D920018 (shown above)

Tools needed: 10 Torx screwdriver

Estimated Repair Time: 20 minutes

Preparation: Remove the Covers.

Important: This procedure can only be performed by authorized service personnel.

These are located on the CenterPlate Input and Exit

All Rollers are held in place with Springs. Use a small screwdriver for removal.

Step	Procedure
1	**Caution:** Turn OFF the Printer and unplug the power cord from the Printer.
2	Remove the Covers. See Lamination Module Cover Removal Procedures
3	Use a small flathead screwdriver to push in the Spring on one side of the Roller (to release it from the tabs).
4	If necessary, remove the Take-Up Motor to access the middle Roller (D920018). See Replacing the Take-up Motor (D900086). • Do not lose the Output Spring Bushing.
5	See Display A for D920013 roller placement. See Display B for D920018 roller placement.
6	Reverse the instructions to re-assemble.

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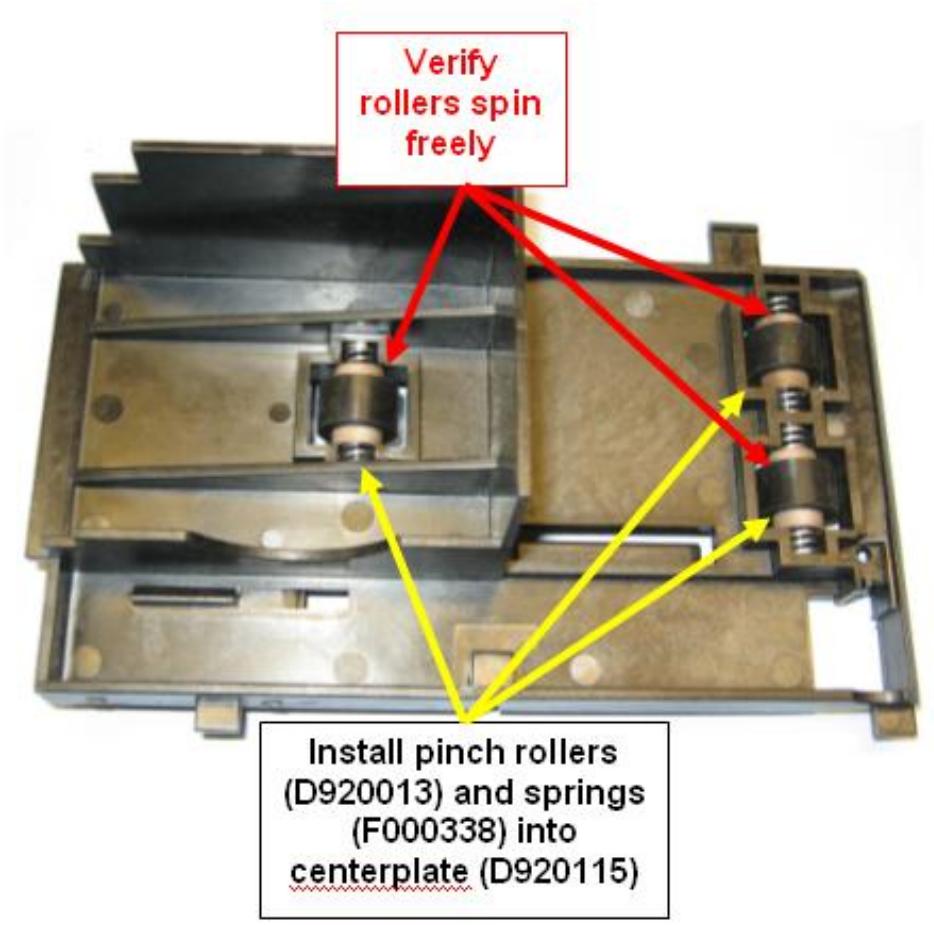
Replacing the Upper Card Path Rollers (D920013 and D920018) (cont.)

Display A : See Step 5 in this procedure.



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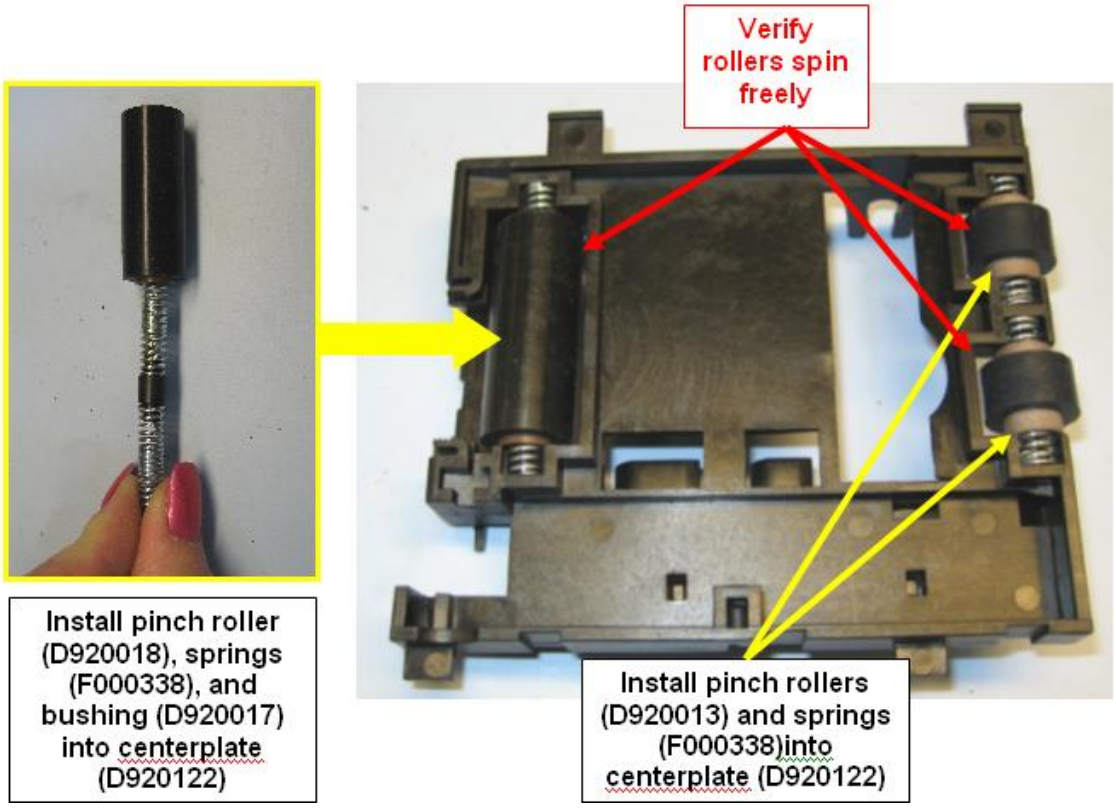
Replacing the Upper Card Path Rollers (D920013 and D920018) (cont.)

Display B: See Step 5 in this procedure.


Verify rollers spin freely
Install pinch roller (D920018), springs (F000338), and bushing (D920017) into centerplate (D920122)
Install pinch rollers (D920013) and springs (F000338)into centerplate (D920122)

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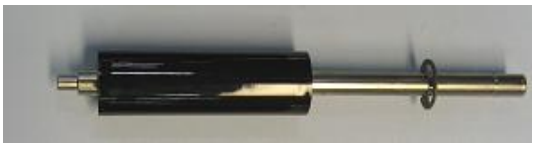
Replacing the Card Rollers (D920119 and D920119-01 and D920015)

D920119 (card feed)

D920015 (input)



D920119-01 (2 used)

Tools needed: 10 Torx screwdriver

Estimated Repair Time: 20 minutes

Preparation: Remove the Covers. **Important:** This procedure can only be performed by authorized service personnel.

Step	Procedure
1	**Caution:** Turn OFF the Printer and unplug the power cord from the Printer.
2	Remove the Covers. See Lamination Module Cover Removal Procedures
3	Prepare the printer by removing the Gears (810266 and D850190). See Replacing the Card Transport Drive Gears (810266), Main Pulleys (D850190) and Belt (220082).
4	Remove the Shaft Bushing (D900046) • Turn it counter-clockwise to remove it. (**Note:** Use a flathead screwdriver to release the tab.)

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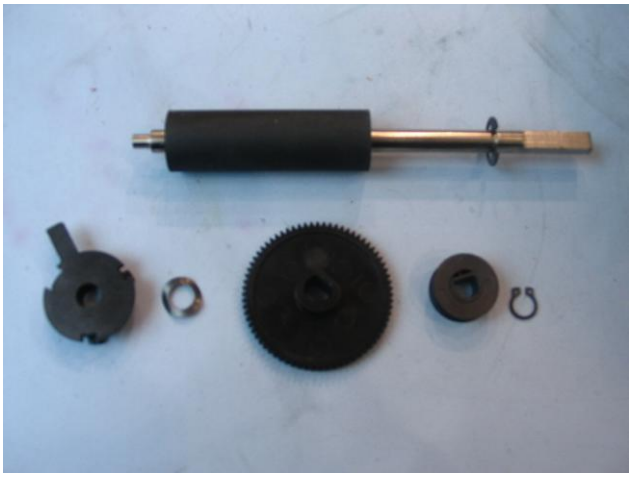
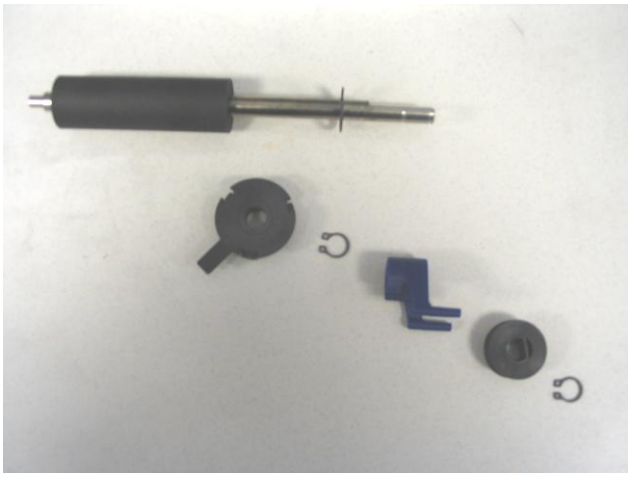
Replacing the Card Rollers (D920119 and D920015)

Step	Procedure
5	Pull the Roller out from the copper bushing and replace it with the new Roller.
6	Observe the order of the parts removed. See Displays A and B within this procedure.
7	Reverse the instructions to re-assemble.

Display A: D920119 (below); See Step 6 in this procedure.



Display B: D920015 (below) ; See Step 6 in this procedure.



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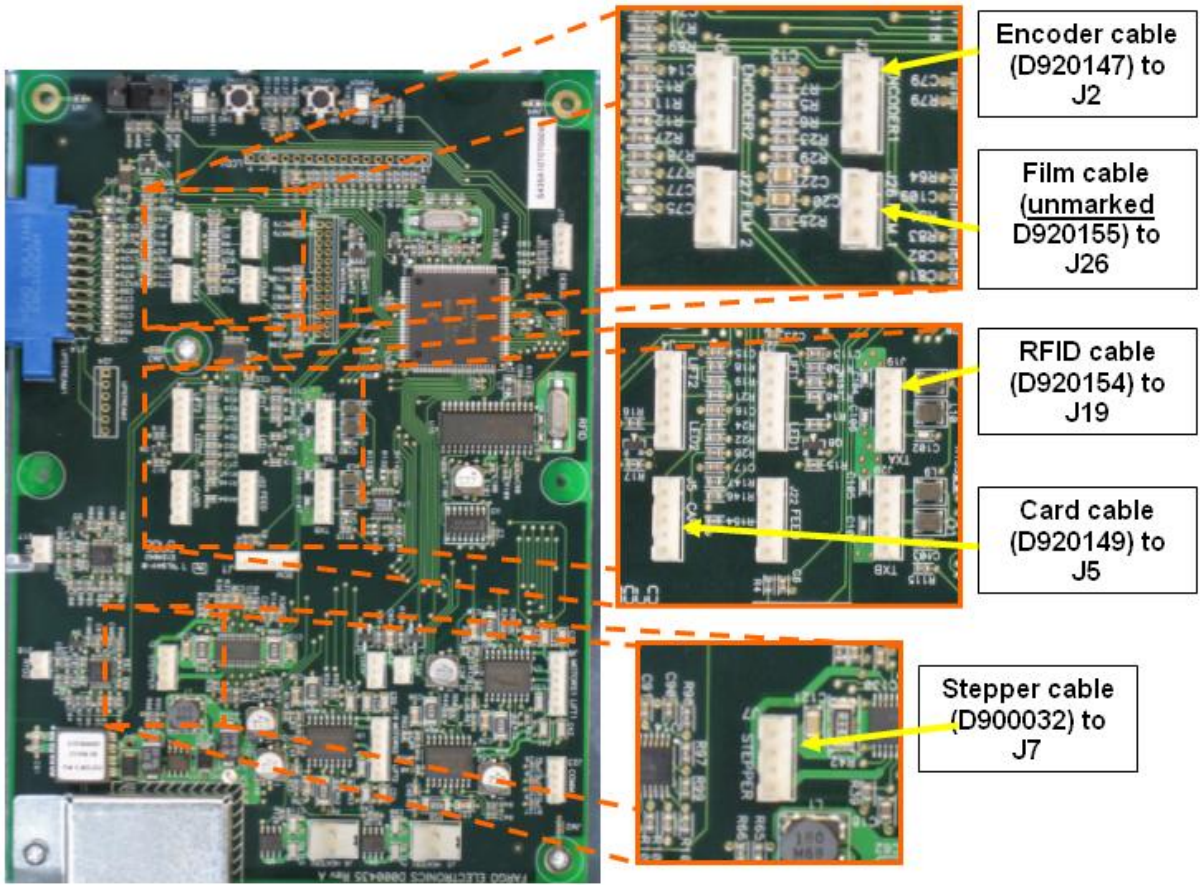
HDP5000 Mainboard Cable Connection

Reviewing the Lamination Module Main Board connections (Feed and Lower Sensing Cables)


Encoder cable (D920147) to J2
Film cable (unmarked D920155) to J26
RFID cable (D920154) to J19
Card cable (D920149) to J5
Stepper cable (D900032) to J7

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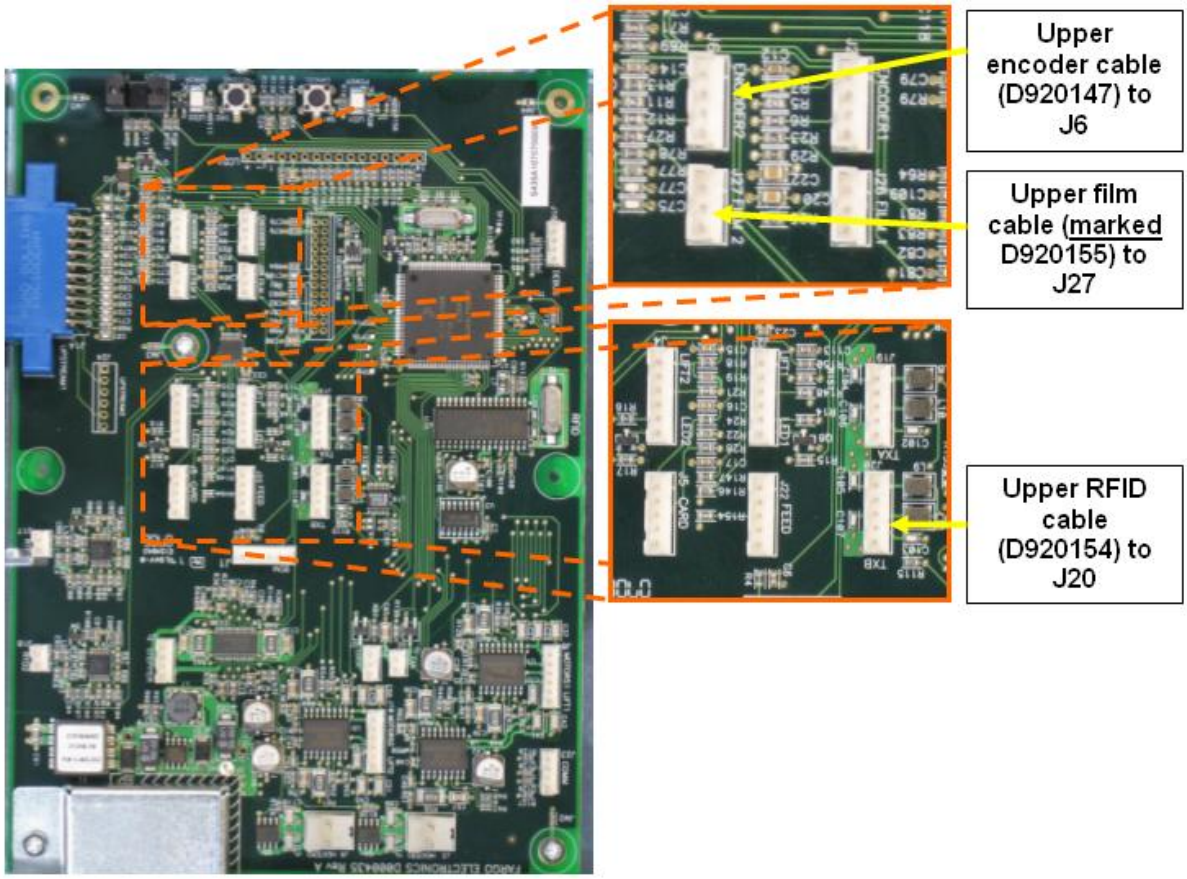
Reviewing the Lamination Module Main Board Connections (Upper Sensing Cables for Dual Sided Laminator)



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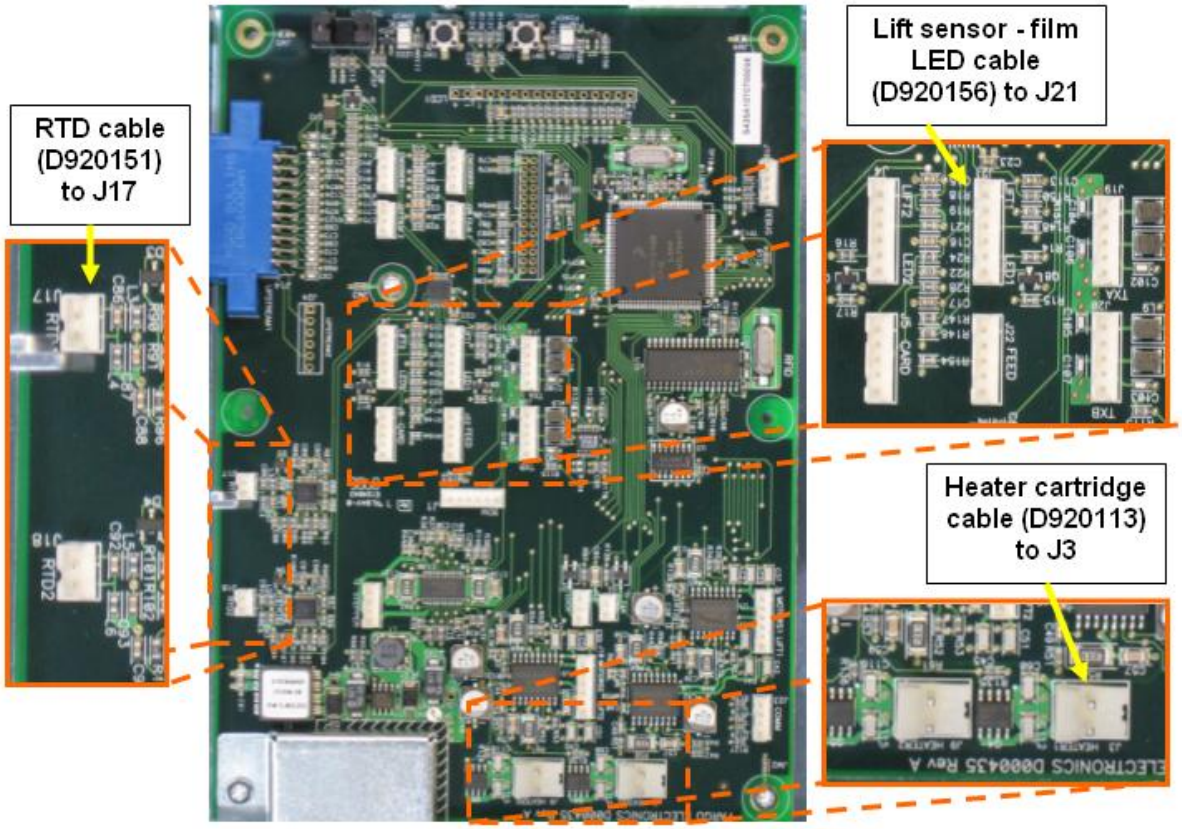
Reviewing the Lamination Module Main Board Connections (Lower Lam Head Cables)



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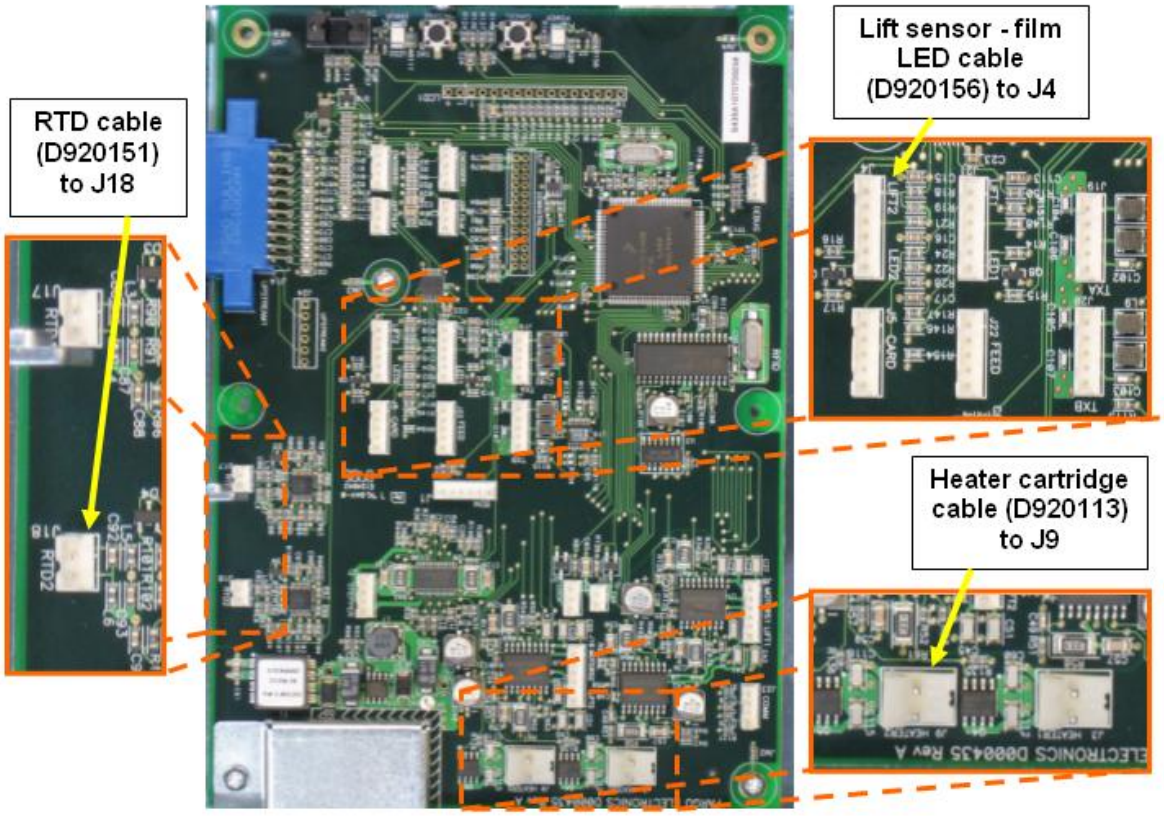
Reviewing the Lamination Module Mainboard connections (Upper Lam Head Cables)



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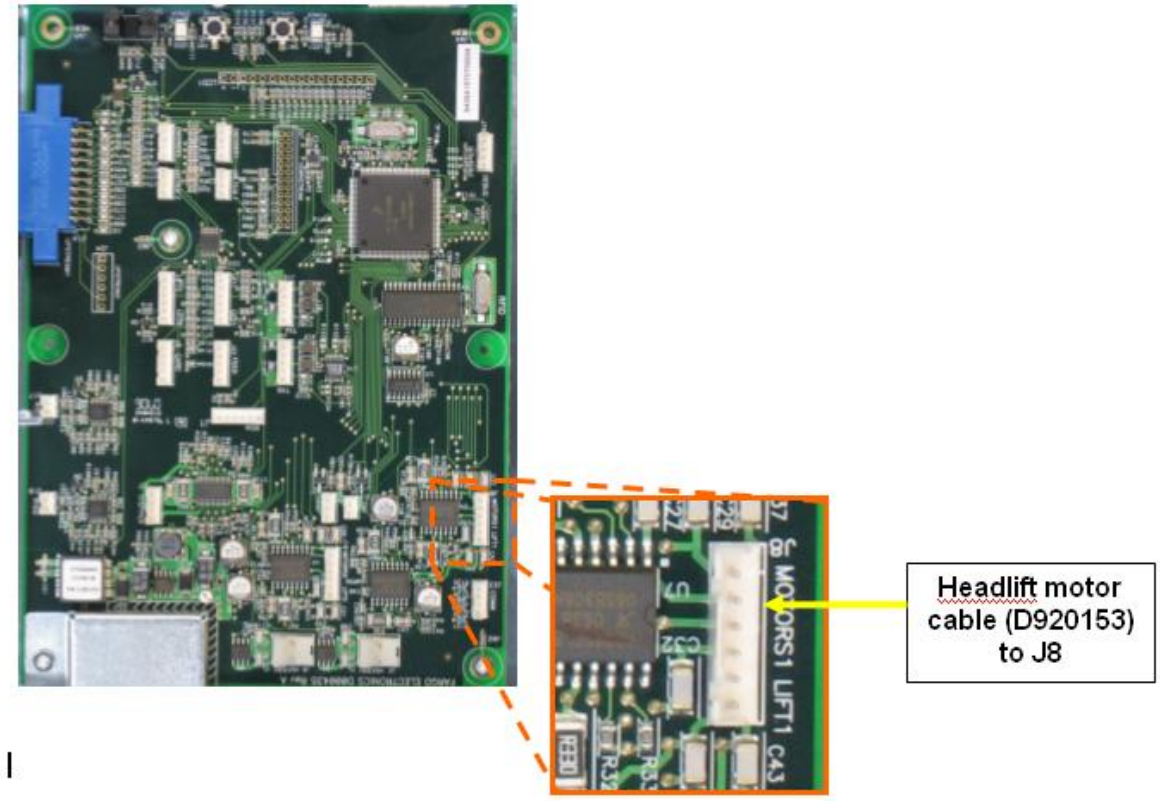
Reviewing the Lamination Module Main Board Connections (Lower Head Lift Motor Cables)



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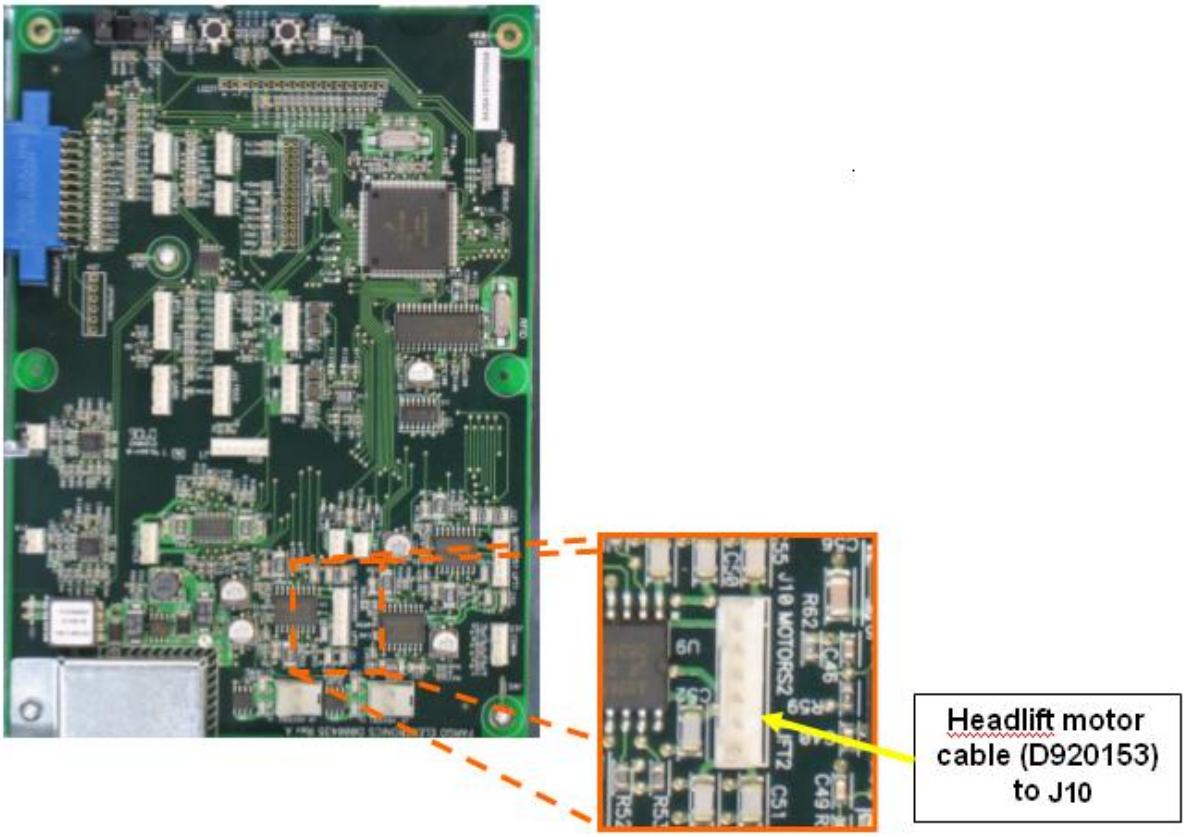
Reviewing the Lamination Module Mainboard connections – Upper Head Lift Motor Cables



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Appendix A: Engineer Drawings

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